SYNKOTE PAINT COMPANY
144-160 VAN RIPER AVENUE
ELMWOOD PARK, BERGEN COUNTY, NEW JERSEY
EPA ID # NJD001394089

GENERAL INFORMATION AND SITE HISTORY

The Synkote Paint Company manufactured paint at the 0.416 acre site (Block 1401, Lot 1) located in Elmwood Park, Bergen County, New Jersey from 1956 until 1985. Richard Max owned and operated the company since 1967. Information was not available regarding the previous owner of the Synkote Paint Company. In November of 1984, complaints were received by the NJDEP, Division of Water Resources (DWR) from local health officials regarding off-site runoff and poor housekeeping. During a NJDEP RCRA inspection conducted in November 1984 by the Division of Waste Management (DWM), very poor hazardous waste storage practices and extensive soil contamination were observed.

On February 7, 1985, Synkote ceased production and filed for Assessment to Benefit for Creditors. At that time, the facility was abandoned with approximately 300 drums and containers remaining on site. Additionally, the reactor vessels inside the one building on the site were also abandoned. The property was foreclosed on by the National Community Bank of New Jersey in 1986 for unpaid mortgage debts and purchased via sheriff's sale in 1988 by Property Concepts, Inc. Elmwood Park, New Jersey.

Prior to the sale of the facility, the Synkote Paint Company became a lead case for the NJDEP Division of Hazardous Waste Management (DHWM), Bureau of Environmental Evaluation Cleanup and Responsibility Assessment (BEECRA) under the Environmental Cleanup and Responsibility Act (ECRA) due to the plant's closure. The owner, Richard Max, did not acknowledge his responsibility under ECRA and did not file the required paperwork for the case to be assigned. In 1988, the case was referred to the Attorney General's Office. The sheriff's sale of the property was completed without the knowledge or approval of the NJDEP or the Attorney General's Office.

The United States Environmental Protection Agency (USEPA), New Jersey Site Compliance Branch and Office of Regional Counsel issued Notice Letters, dated April 25, 1989, to the four potentially responsible parties (PRPs) that have been identified regarding their potential liability. They are Synkote Paints, Mr. Richard E. Max, the National Community Bank of New Jersey (NCB) and Property Concepts, Inc.

Mr. Richard Max, through his attorney, has expressed no interest in performing a removal action. NCB has denied any liability. A Consent Order for the removal of all hazardous materials from the site was sent to Property Concepts, Inc. Property Concepts, Inc. was not able to comply with the Consent Order and in October 1989, the EPA undertook a Removal Action under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) as amended by the Superfund Admendments and Reauthorization Act (SARA), to mitigate the threat posed by the drums, containers and vessels of hazardous substances at the Synkote Paint site. At the time of this report, all the drums at the site have been overpacked and are due to be removed in the near future.

The site is in a highly urbanized area in which residential, commercial and industrial properties are all located within close proximity of the site. The properties directly east and south of the site are occupied by light industrial facilities. A residential area is located 50 feet to the north of the site, directly across the street. The approximate populations residing within 1 and 4 miles of the site are 30,000 and 172,000 people, respecively.

SITE OPERATIONS OF CONCERN

The Synkote Paint Company was a small manufacturer of solvent-based industrial coatings. The manufacturing process generally involved the compounding of pigments and resins in reactors with solvents such as xylene, toluene, isopropyl alcohol, methy lisobutyl ketone (MIBK), methyl ethyl ketone (MEK) and butylacetone. No hazardous wastes were generated by the process. However, hazardous wastes were generated when manufacturing vessels were washed out with solvents. The resulting waste material was stored in 55-gallon drums which were to be disposed of off site.

During an inspection conducted by the NJDEP, DHWM, Bureau of Metro Enforcement (BME) on November 8, 1984, approximately 200 drums were observed to be stored haphazardly east of the manufacturing building. Full and empty drums were mixed and stored directly on the ground. Several drums were noted to be in poor condition or to be missing lids. Soil contamination resulting from overflowing drums and generally poor housekeeping was noted in both the eastern portion of the site and in the hazardous waste storage area.

Another inspection conducted by BME on November 10, 1988, revealed similar conditions in the site yard as those observed previously. Upon entering the unoccupied Synkote building, 16 drums of unknown material were noted along with a number of hazardous waste salvage drums marked "S&W Waste" and dated November 11, 1985. The drums contained resins (marked "toxic") and primers (marked "flammable liquid"). A lab table in the building was noted to hold numerous known and unknown chemicals in 1 quart to 1 gallon size containers. The contents of these containers included butanol, epichlorhydrin, neoprene latex, glacial acetic acid, diethanolamine, 2-ethylhexanoic acid, triethanolamine, isophorone, unknown acids and other unlabled liquids and solids.

An investigation by USEPA conducted in 1989 confirmed the presence of approximately 300 improperly stored drums, containers and vessels of hazardous substances at the site. Labels on some of the containers indicated the contents to be predominantly solvents, corrosives and paint waste solutions. Many of the materials were considered by USEPA to be flammable and/or poisonous and presented a threat of fire or vapor release. The materials were noted to be highly toxic, incompatable and potentially unstable under their present storage conditions. The drums and vessels were noted to be in deteriorated condition and to present a potential for human exposure through direct contact or discharge into the environment.

GROUNDWATER ROUTE

The topography surrounding the site generally consists of gently sloping hills. The elevation of the site is approximately 50 feet above mean sea level (MSL). The area surrounding the site has only a slight slope,

however, the site itself has an average slope of nearly 5° toward the northeast.

Site specific hydrogeologic information is not available. However, the L.,J., and M. La Place Chemical Company site, which is located approximately 0.5 mile northeast of the site, has been extensively studied. The overburden in the vicinity of site consists of unconsolidated, low permeability silts and clays overlying the sandstones and shales of the Triassic Age Brunswick Formation. Test borings advanced at the La Place site indicate that bedrock occurs at a depth of approximately 38 feet and that groundwater occurs between 1 and 4 feet below the surface in the unconsolidated layers. The Synkote site is located in an area of higher elevation than the La Place site, therefore, the depths to groundwater and bedrock may be greater. Monitoring well data collected at La Place also indicates that the shale bedrock is fully saturated and that groundwater within the bedrock is under confined conditions. The materials comprising the Brunswick Formation are relatively impermeable, but it has a excellent water bearing property due to the high secondary porosity resulting from fracturing in the rock.

The Garfield Municipal Wells, which supplied water to approximately 30,000 people, are located approximately 0.5 mile north of the site and were shown to be contaminated in 1982. Compounds found in the groundwater included trichloroethylene, tetrachloroethylene and other chlorinated solvents. A private well located 0.5 mile from the site is also contaminated by similar chemicals. The City of Garfield Water Department shut down its well fields in Garfield and Elmwood Park on March 20, 1989. The wells were shut down due to unacceptable levels of volatile organic compounds, until air strippers are installed some time in 1990. Garfield and Elmwood Park are temporarily purchasing water from the Passaic Valley Water Commission. Although the La Place Chemical site is believed by the NJDEP-DWR to be responsible for the groundwater contamination in the area, volatile organic compounds discovered in soil samples collected at Synkote Paint also have the potential to contribute to groundwater contamination.

In addition to the Garfield Wells, approximately 30 public water supply wells exist within 4 miles of the site including those that serve Saddle Brook, Elmwood Park, Fair Lawn Borough, Lodi Borough, Wallington Borough, Ridgewood Village, Hawthorne and Hackensack. All wells are screened in the Brunswick Formation and are 300 to 600 feet in depth. The total population served by groundwater from wells within a 4 mile radius of the site is approximately 172,000. In addition to the municipal wells, 65 industrial and commercial wells are also located within the site area.

SURFACE WATER ROUTE

There is a potential for surface water contamination. Chemicals spilled on the ground of the site may be carried via rain runoff to a storm sewer catch basin which discharges into Fleischer Brook. Fleischer Brook flows into the Passaic River approximately 2 miles downstream from the site. Elmwood Park's health officer stated that he and local residents living near Synkote have seen whitish colored runoff from the site entering into the storm drains.

There are no surface water intakes for potable purposes on the Passaic River. The river is classified as "FW2" non-trout water that is used for industrial and agricultural supply purposes and may be used for primary and secondary contact recreation. There are no wetlands or endangered species within 1 mile of the site.

AIR ROUTE

There was a potential for volatile organic chemicals stored in leaking drums to contaminate the air. Since all drums have been overpacked and are to be removed by EPA, this potential has been eliminated. During the Pre-Sampling Assessment conducted by NJDEP, DHWM, Bureau of Planning and Assessment (BPA), soil gas readings in several locations exceeded 1000 ppm on both the HNu and the Organic Vapor Analyzer (OVA), however, ambient air readings remained at background levels.

SOIL

As stated previously, both visual observations and analytical data have confirmed soil contamination at the site as a result of poor hazardous waste storage practices and housekeeping. Four soil samples collected by the NJDEP-DWR on July 3, 1985 revealed the presence of toluene (965 ppm), o-xylene (205 ppm), ethyl benzene (17 ppm), benzene (48 ppm), cumene (27 ppm), styrene (103 ppm), p-xylene (160 ppm) and 1,2,4 trimethylbenzene (718 ppm). Additional sampling was conducted by the NJDEP, Bureau of Planning and Assessment on January 24, 1989. Contaminants detected in the soil samples included cadmium (13.9 ppm), chromium (268 ppm), zinc (1970), ethyl benzene (up to 728,000 ppb), toluene (up to 1,415,000 ppb), xylene (up to 5,716,000 ppb), bis (2-ethylhexyl)phthalate (1,800,000 ppb), naphthalene (19,000 ppb) and Aroclor 1254 (up to 290,000 ppb). (see Summary of Site Investigation and Sampling Data for break down of results)

DIRECT CONTACT

There is a potential for direct contact with waste via observed site runoff. Additionally, during a presampling assessment conducted by NJDEP, BPA on January 18, 1989, it was noted that site access could be gained through a poorly secured door to the abandoned Synkote building. The present owner of the site has improved site security since the inspection.

FIRE AND EXPLOSION

A potential exists for fire or explosion due to the nature of materials present. The site is accessable to trespassers and thus posing a risk for vandalism or arson. Drum cleanup activities conducted by the USEPA have reduced this risk.

ADDITIONAL CONSIDERATIONS

Chemicals that have been spilled on the ground may impact upon plants and animals. The presence of heavy metals in the soil may potentially allow contamination of the food chain.

Damage to off-site property has been alleged. A worker who parked his car on a lot adjacent to the site claimed that chemicals in the runoff from the site damaged his car's tires.

ENFORCEMENT ACTIONS

A history of regulatory/enforcement actions is summarized below:

1982-1983	Notice of Violation Failure to submit Annual Report to NJDEP, Bureau of Hazardous Waste Engineering
June 6, 1985	Administrative Order and Penalty Settlement Offer for hazardous waste violations
September 9, 1985	Directive Letter for a spill of mineral spirits
January 1, 1986	Directive Letter requiring installation of monitoring wells
March 3, 1986	Late Directive due to Synkote Paint Company's inaction
July 7, 1987	Notice of Civil Administrative Penalty Assessment for a manifest violation
November 11, 1988	Notice of Violation for numerous hazardous waste violations

Additional enforcement actions have already been discussed under the site's background and history.

SUMMARY OF SAMPLING DATA

Sampling date:	January 24, 1989
Sampled by:	NJDEP, Division of Hazardous Waste Management Bureau of Planning and Assessment 65 Prospect Street Trenton, New Jersey
Samples:	A total of five soil samples were collected from locations chosen during a pre-sampling assessment conducted on January 18, 1989. The locations were chosen based on soil gas readings in excess of 1000 ppm (read as methane) using an Organic Vapor Analyzer (OVA)
Laboratory:	Versar, Inc. 6850 Vesar Center Springfield, VA 22151 NJDEP Lab Certification # 84419
Parameters:	The soil samples were analyzed for the Target Toxic Compound List plus 30 peaks.

Sample description:

Soil # 1 was collected at a depth of 0 to 8 inches. The sample location was on site, near the southeastern corner of the building, east of the concrete drum storage pad. Runoff and leaking material from stored drums was noted at this area.

Soil # 2 was collected at a depth of 0 to 7 inches. The sample location was east/downslope of the abandoned drums in the southeastern section of the site property. The sampling site was identified as the location of drum spill/leak.

Soil # 3 was collected at a depth of 6 to 12 inches. The sample location was identified as the rear portion of a cinder block berm, approximately 10 feet west of the eastern wall.

Soil # 4 was collected at a depth of 8 to 12 inches. The sample location was identified as an open spot in the central portion of the property, among abandoned drums. (It was noted that approximately one hour after the sample was collected, the sample hole continued to emit volatiles into the air, providing readings on the OVA as high as 800 ppm).

Soil # 5 was collected at a depth of 0 to 8 inches. The sample location was described as beneath the lower corner of a dumpster in the western portion of the site.

Contaminants Detected:

SAMPLE #	CONTAMINANTS DETECTED	CONCENTRATION	NJDEP ACTION LEVEL
SOIL # 1	METALS	BELOW ACTION LEVELS	
	ACETONE	6000 PPB	1000 PPB
	TOTAL XYLENES	30,000 PPB	1000 PPB
SOIL # 2	METALS	BELOW ACTION LEVELS	
	ETHYL BENZENE	6.0 PPB	1000 PPB
	TOTAL XYLENES	25.0 PPB	1000 PPB
	AROCLOR 1254	89 PPB	1000 PPB
SOIL # 3	METALS	BELOW ACTION LEVELS	
	ETHYL BENZENE	276,000 PPB	1000 PPB

	TOTAL XYLENES	5,716,000 PPB	1000 PPB
	UNKNOWN VOCs	13,000-350,000 PPB	
	UNKNOWN HYDROCARBONS	17,000 PPB	
	AROCLOR 1254	91 PPB	1000 PPB
SOIL # 4	CADMIUM	13.9 PPM	3 PPB
	CHROMIUM	268 PPM	100 PPM
	LEAD	1590 PPM	1000 PPM
	ZINC	1970 PPM	350 PPM
	TOLUENE	1,415,000 PPB	1000 PPB
	ETHYL BENZENE	728,000 PPB	1000 PPB
	TOTAL XYLENES	530,000 PPB	1000 PPB
	BIS(2-ETHYLHEXYL)PHTHALATE	1,800,000 PPB	10,000 PPB
	NAPHTHALENE	19,000 PPB	10,000 PPB
	DI-N-BUTYLPHTHALATE	58,000 PPB	10,000 PPB
	DI-N-OCTYLPHTHALATE	18,000 PPB	10,000 PPB
	TENTATIVELY IDENTIFIED VOCs	66,000-400,000 PPB	
	UNKNOWN HYDROCARBONS	33,000-380,000 PPB	
	AROCLOR 1254	290,000 PPB	1000 PPB
SOIL #5	METALS	BELOW ACTION LEVELS	
	ETHYLBENZENE	4 PPB	1000 PPB
	TOTAL XYLENES	31 PPB	1000 PPB
	BIS(2-ETHYLHEXYL)PHTHALATE	57,000 PPB	10,000 PPB

QA/QC: One trip blank and one field blank were provided by the lab for QA/QC purposes. NJDEP sampling procedures and protocol were followed during the sampling episode. The data was submitted to the NJDEP, Division of Hazardous Site Mitigation, Bureau of Environmental Measurements and Quality

Assurance for review. The results of the QA/QC review are pending.

PRIORITY DESIGNATION

Based on the conditions at the site at the time of the Site Inspection, the Synkote Paint Site is assigned a high priority for further action. Soil contamination has been confirmed and there is also a potential for air, surface water and groundwater contamination. An investigation by the USEPA (Attachment D) confirmed the presence flammable and poisonous materials stored under potentially unstable conditions. There is a potential for fire or vapor release and direct contact. There have been reports of break-ins and vandalism at the facility.

RECOMMENDATIONS

In the fall of 1989, following the site inspection, short term remedial measures including securing all leaking drums, identification and segregation of material and the storage of materials for removal has been completed as part of an USEPA Removal Action under CERCLA.

Further delination of soil contamination and evaluations of potential ground and surface water contamination are still required to fully identify environmental and health risk at the site prior to the performance of long term remedial measures.

Submitted by

Robert Raisch, HSMS II
Bureau of Planning and Assessment
December 22, 1989

SYNKOTE PAINT COMPANY
144-160 VAN RIPER AVENUE
ELMWOOD PARK, BERGEN COUNTY, NEW JERSEY
EPA ID # NJD001394089

ATTACHMENTS

MAPS

1. USGS HACKENSACK QUADRANGLE
2. SITE MAP
3. ELMWOOD PARK TAX MAP
4. BERGEN COUNTY STREET AND ROAD MAP
5. ATLAS BASE MAP, SHEET NO. 26
6. GEOLOGIC OVERLAY
7. WATER SUPPLY MAP
8. DRAINAGE MAP
9. WATER WITHDRAWAL MAP

ATTACHMENTS		DATE	SOURCE
A.	SITE SAMPLING ACTIVITIES MEMO AND ANALYTICAL RESULTS	1/27/89	BPA
B.	SITE SAMPLING PLAN MEMO	1/20/89	BPA
C.	PRELIMINARY ASSESSMENT	10/1/86	BPA
D.	USEPA PRELIMINARY ASSESSMENT AND CERCLA REMOVAL ACTION AUTHORIZATION	8/5/89	MBE
E.	EPA-LETTER RE: SYNKOTE PAINT	4/25/89	MBE
F.	MEMO RE: SYNKOTE AS A POSSIBLE REMOVAL ACTION CANDIDATE	2/7/89	MBE
G.	MEMO RE: REFERRAL OF SYNKOTE PAINT	1/6/89	BPA
H.	NOTICE OF CIVIL ADMINISTRATIVE PENALTY ASSESSMENT	7/6/89	MBE
I.	DIRECTIVE LETTER	9/20/85	MBE
J.	ADMINISTRATIVE ORDER	6/6/85	MBE
K.	PENALTY SETTLEMENT OFFER	6/6/85	MBE
L.	MEMO RE: SYNKOTE SITE INVESTIGATION	3/10/89	MBE

M.	INVESTIGATION	1/24/89	MBE
N.	INVESTIGATION	1/24/89	MBE
O.	LETTER RE: DWR SOIL SAMPLING RESULTS	1/3/86	MBE DWR
P.	DIVISION WATER RESOURCES INVESTIGATION MEMORANDUM	7/3/85	MBE DWR
Q.	LETTER RE: GARFIELD WELL CONTAMINATION	6/14/88	MBE DWR
R.	LETTER RE: GARFIELD WELL CONTAMINATION	3/22/89	MBE DWR
S.	REPORT OF PHONE CALL RE: GARFIELD AND ELMWOOD PARK WELL CONTAMINATION	6/1/89	MBE DWR

NJD001294089

POTENTIAL HAZARDOUS WASTE SITE SITE IDENTIFICATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Syntkote Paint	144-160 Van Riper Ave

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Elmwood Park	NJ	07407	Bergen	02	

09 DIRECTIONS TO SITE (Starting from nearest public road)

GSP to Exit 157 - Rt 46 East. First light - left onto Boulevard. Cross Market St. First right after railroad tracks onto Van Riper Ave - Syntkote Paint Co is on right.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, residential, mailing)
Richard E Max	578 Dorchester Drive

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
River Vale	NJ	07675	(201) 391-5182

07 OPERATOR (If known and different from owner)	08 STREET (Business, residential, mailing)
Same	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

IV. HOW IDENTIFIED

01 DATE IDENTIFIED: 11 / 3 / 81 (MONTH DAY YEAR)

02 IDENTIFIED BY (Check all that apply)

☒ A. CITIZEN COMPLAINT ☐ B. INDUSTRY ☒ C. STATE/LOCAL GOVERNMENT ☐ D. AERIAL RECONNAISANCE

☒ E. RCRA INSPECTION ☐ F. SURFACE IMPOUNDMENT ASSESSMENT ☐ G. OTHER EPA IDENTIFICATION

☐ H. OTHER _____ (Specify)

V. SITE CHARACTERIZATION

01 TYPE OF SITE (Check all that apply)

☒ A. STORAGE ☐ B. TREATMENT ☐ C. DISPOSAL ☒ D. UNAUTHORIZED DUMPING ☐ E. OTHER _____ (Specify)

02 SUMMARY OF KNOWN PROBLEMS (Provide narrative description)

Lab analysis of soil samples taken from site shows contamination by the following solvents: Toluene, o-xylene, m-xylene, Ethylbenzene, benzene, Cumene, Styrene

03 SUMMARY OF ALLEGED OR POTENTIAL PROBLEMS (Provide narrative description)

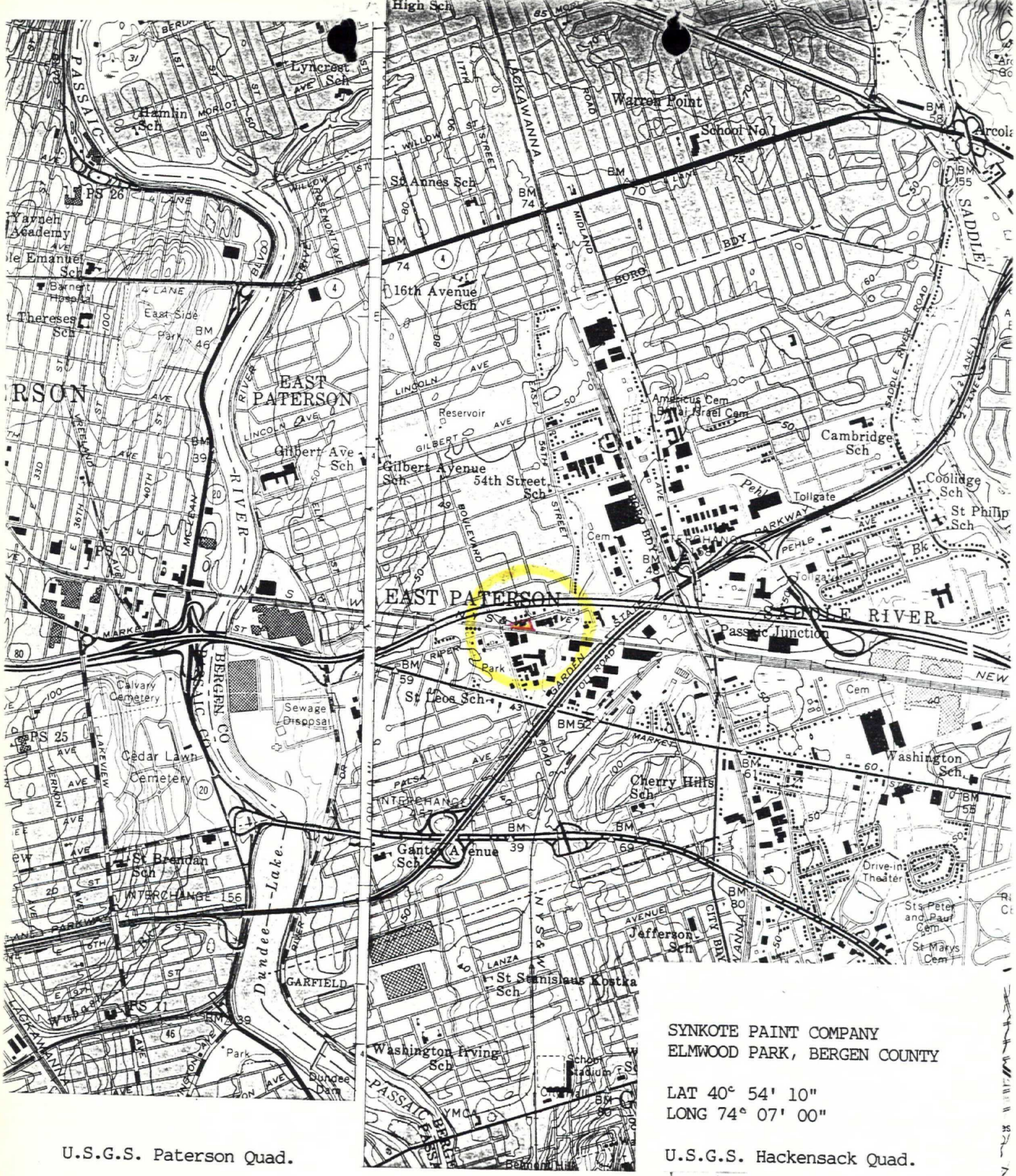
Potential exist for contamination of surface water through observed run off into catch basin, ground water and drinking water supply. The Garfield Municiple wells which supplies approx 30,000 people with water is approximately 3/4 of mile from site.

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
HELEN DECERCE	NJDEP - BUREAU OF SITE ASSESSMENT	(609) 633-2218

04 PREPARED BY	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Robert Raisch	NJDEP	DHWM BSA	(609) 984-3018	09 / 18 / 86 (MONTH DAY YEAR)

EPA FORM 2070-11 (7-81)



SYNKOTE PAINT COMPANY
ELMWOOD PARK, BERGEN COUNTY

LAT 40° 54' 10"
LONG 74° 07' 00"

U.S.G.S. Paterson Quad.

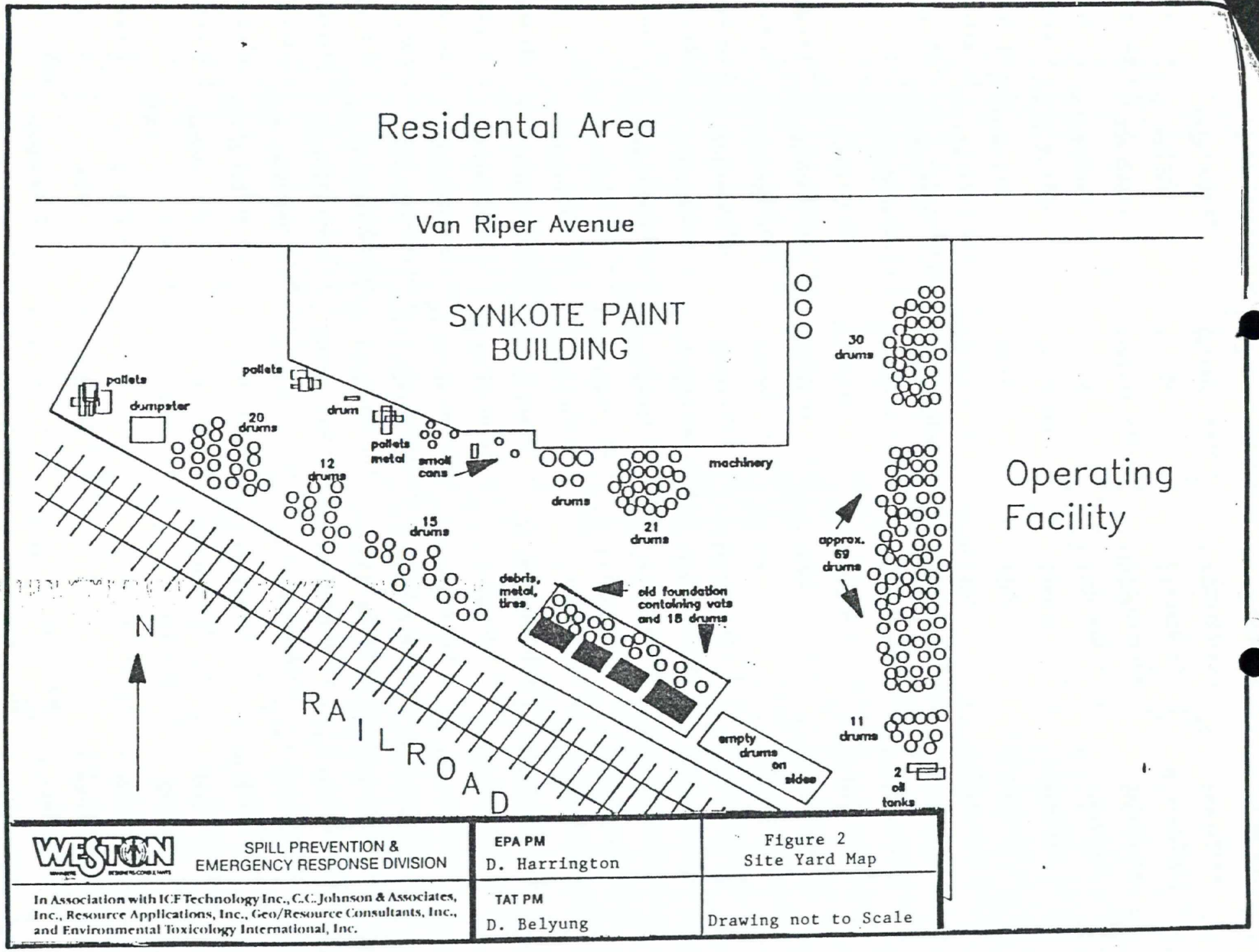
U.S.G.S. Hackensack Quad.

SCALE 1 24000

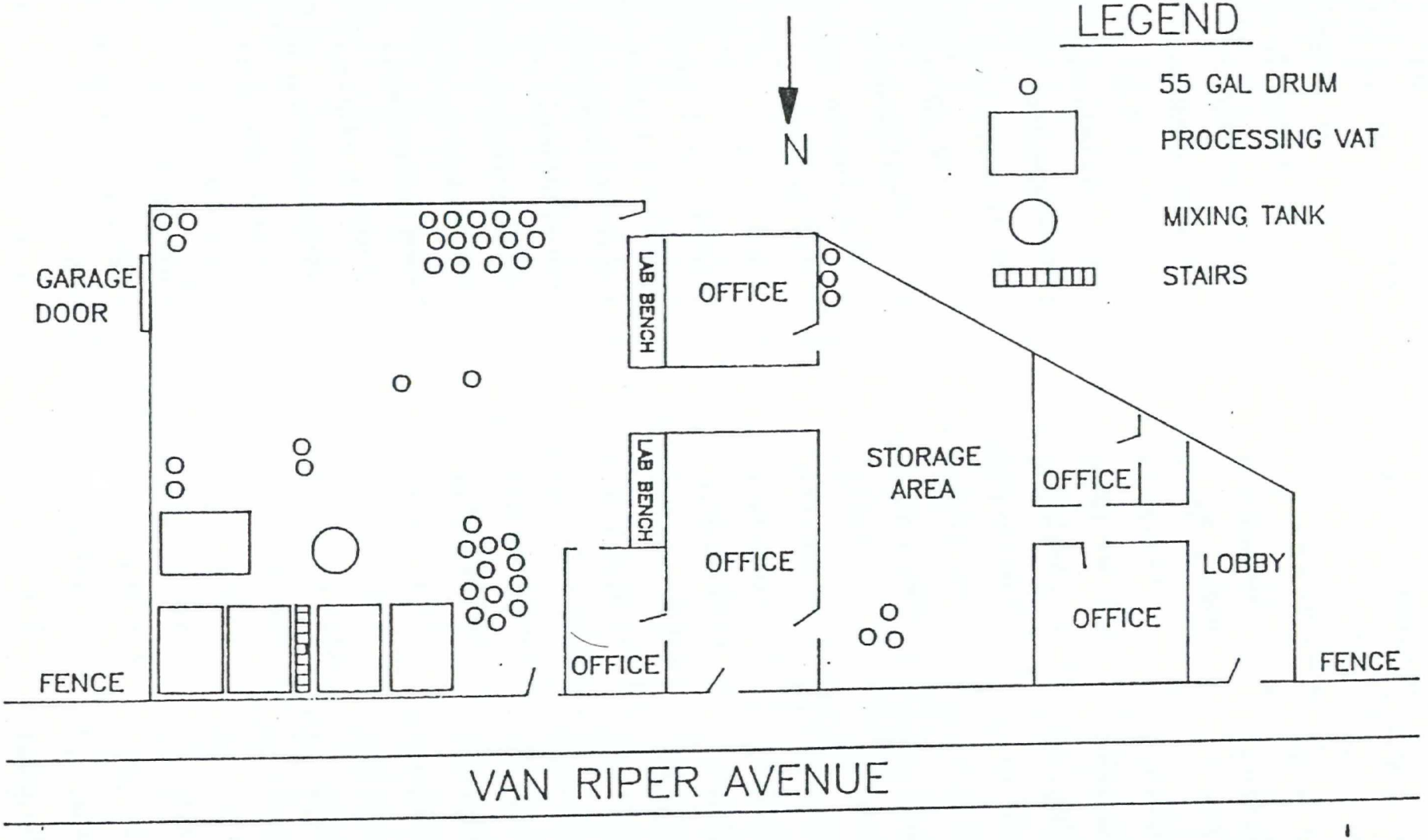
1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

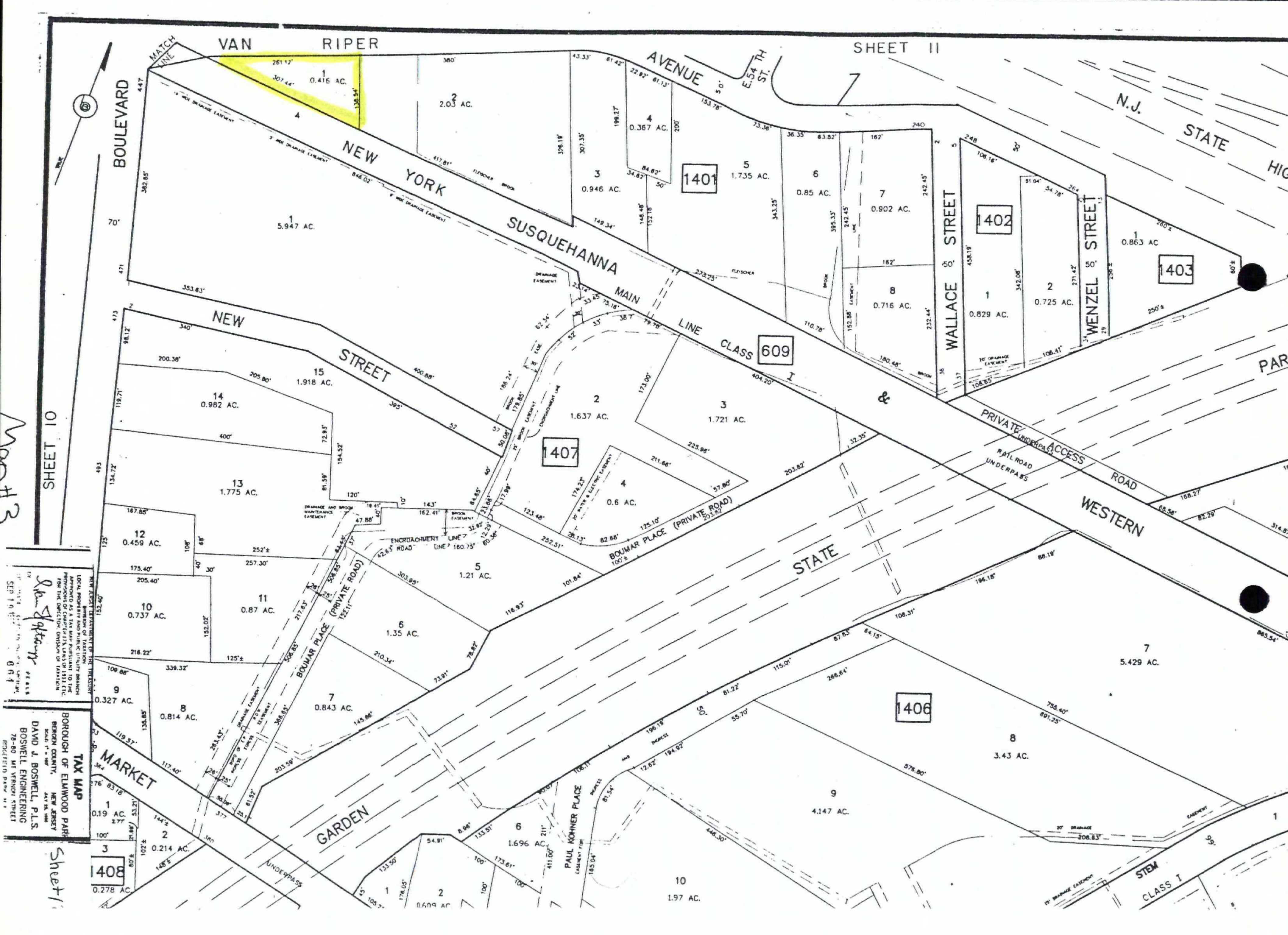
NEW JERSEY


Residental Area
Van Riper Avenue
SYNKOTE PAINT BUILDING
pallets
dumpster
20 drums
pallets
drum
pallets metal
small cans
12 drums
15 drums
drums
21 drums
machinery
30 drums
approx. 69 drums
debris, metal, tires
old foundation containing vats and 18 drums
empty drums on sides
11 drums
2 oil tanks
Operating Facility
N
RAILROAD
WESTON
SPILL PREVENTION & EMERGENCY RESPONSE DIVISION
In Association with ICF Technology Inc., C.C. Johnson & Associates, Inc., Resource Applications, Inc., Geo/Resource Consultants, Inc., and Environmental Toxicology International, Inc.
EPA PM
D. Harrington
TAT PM
D. Belyung
Figure 2
Site Yard Map
Drawing not to Scale

Map 2-A



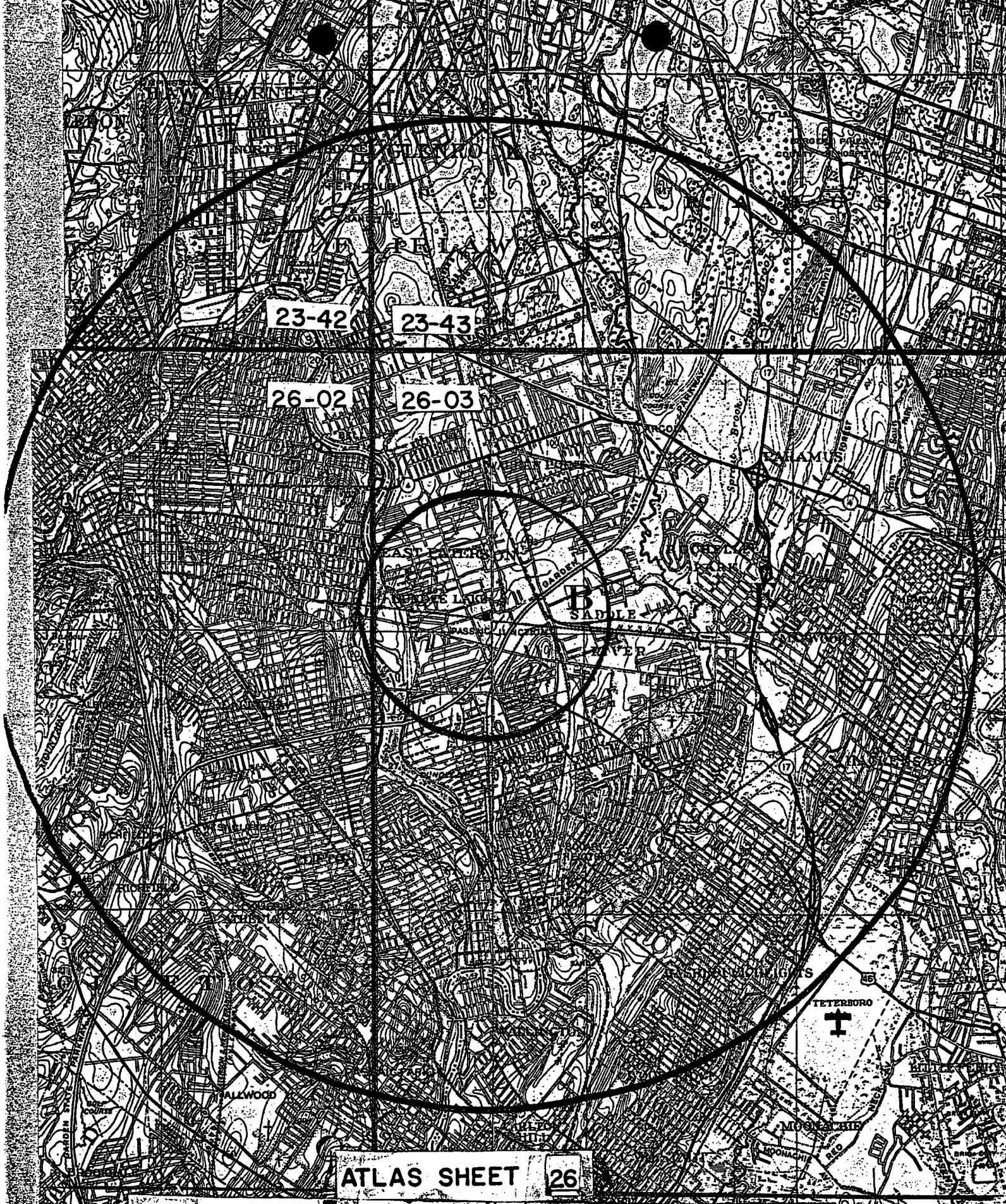
WESTON — SPILL PREVENTION & EMERGENCY RESPONSE DIVISION In Association with ICF Technology Inc., C.C. Johnson & Associates, Inc., Resource Applications, Inc., Geo/Resource Consultants, Inc., and Environmental Toxicology International, Inc.	EPA PM D. Harrington TAT PM D. Belyung	Figure 3 Building Interior Drawing not to Scale

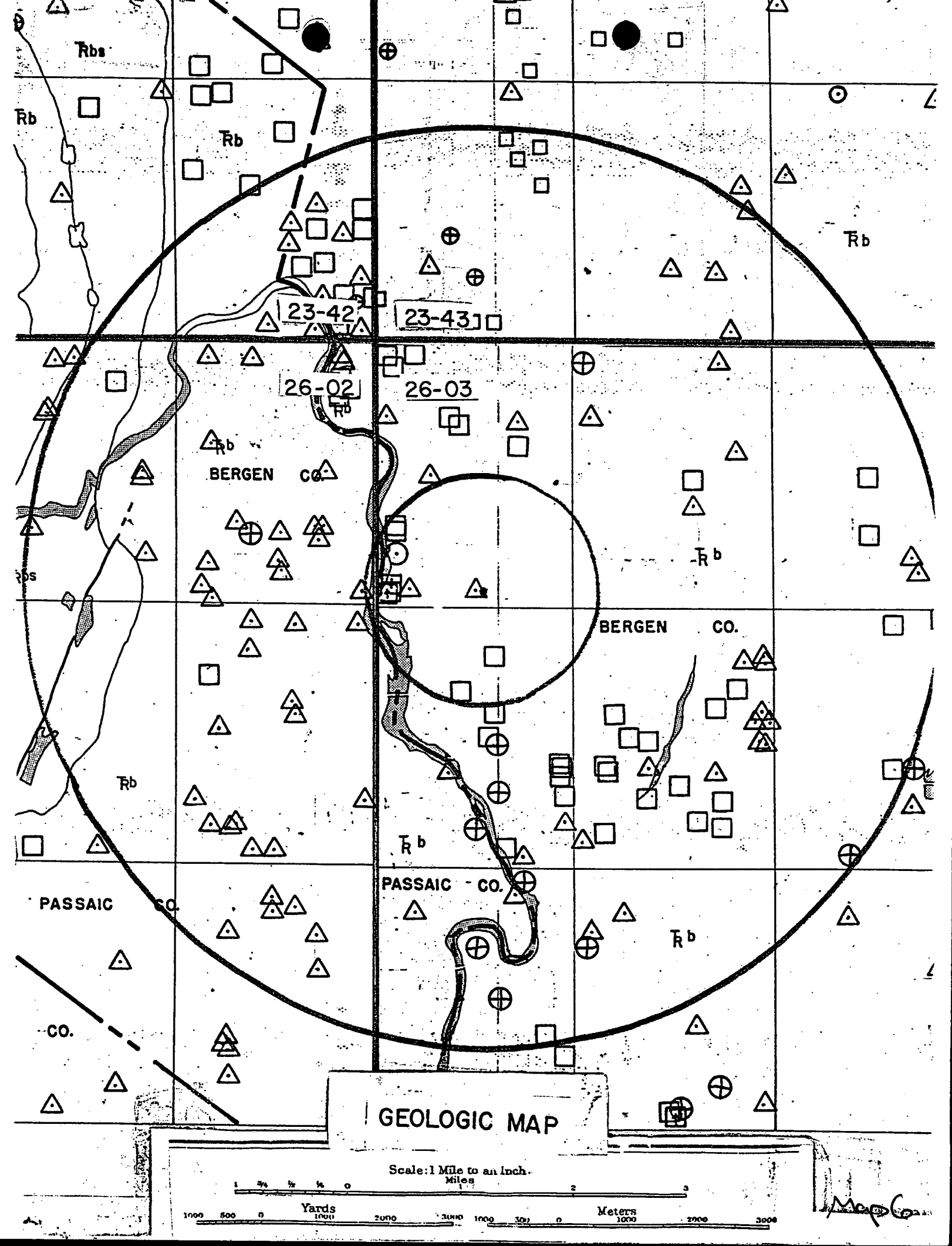


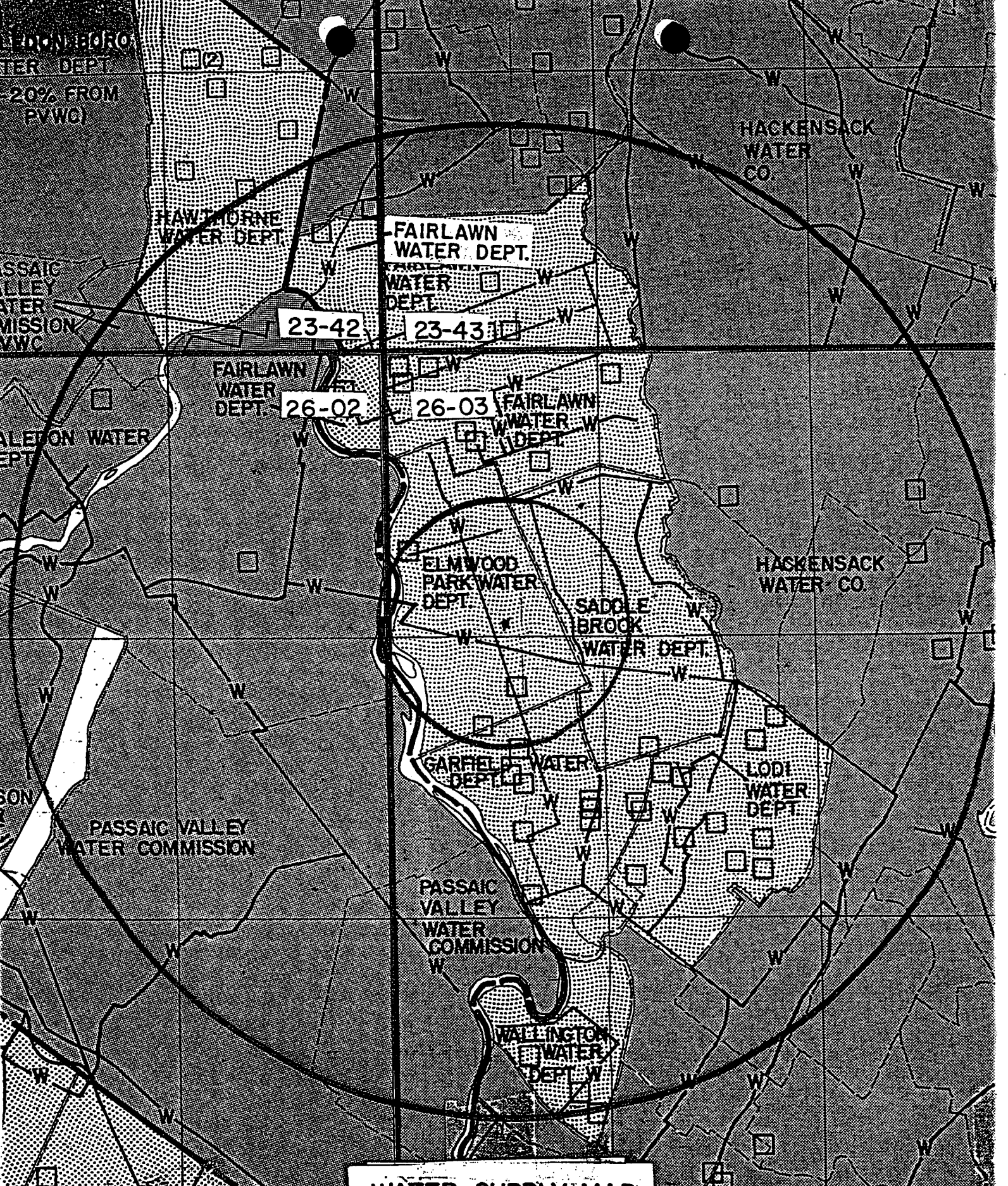
VAN RIPER AVENUE
SHEET 11
N.J. STATE HIGHWAY
BOULEVARD
NEW YORK SUSQUEHANNA MAIN LINE CLASS I & WESTERN
NEW STREET
WALLACE STREET
WENZEL STREET
BOUMAR PLACE (PRIVATE ROAD)
PRIVATE ACCESS ROAD
RAILROAD UNDERPASS
STATE
GARDEN
MARKET
PAUL KOHNER PLACE
SHEET 10
1401
1402
1403
1406
1407
1408
609
TAX MAP
BOROUGH OF ELMWOOD PARK
BERGEN COUNTY, NEW JERSEY
DAVID J. BOSWELL, P.L.S.
BOSWELL ENGINEERING
Map #3
Sheet 1

Syntkote Paint Company
144-160 Van Riper Ave
Elmwood Park, Bergen Co

Hagstrom Street + Road Map
Map 4


23-42
23-43
26-02
26-03
ATLAS SHEET 26
Scale: 1 Mile to an Inch.
Miles
Yards
Meters


Rbs
Rb
Rb
Rb
23-42
23-43
26-02
26-03
Rb
Rb
BERGEN CO.
Rb
BERGEN CO.
Rb
Rb
PASSAIC CO.
PASSAIC CO.
Rb
CO.
GEOLOGIC MAP
Scale: 1 Mile to an Inch.
Miles
Yards
Meters



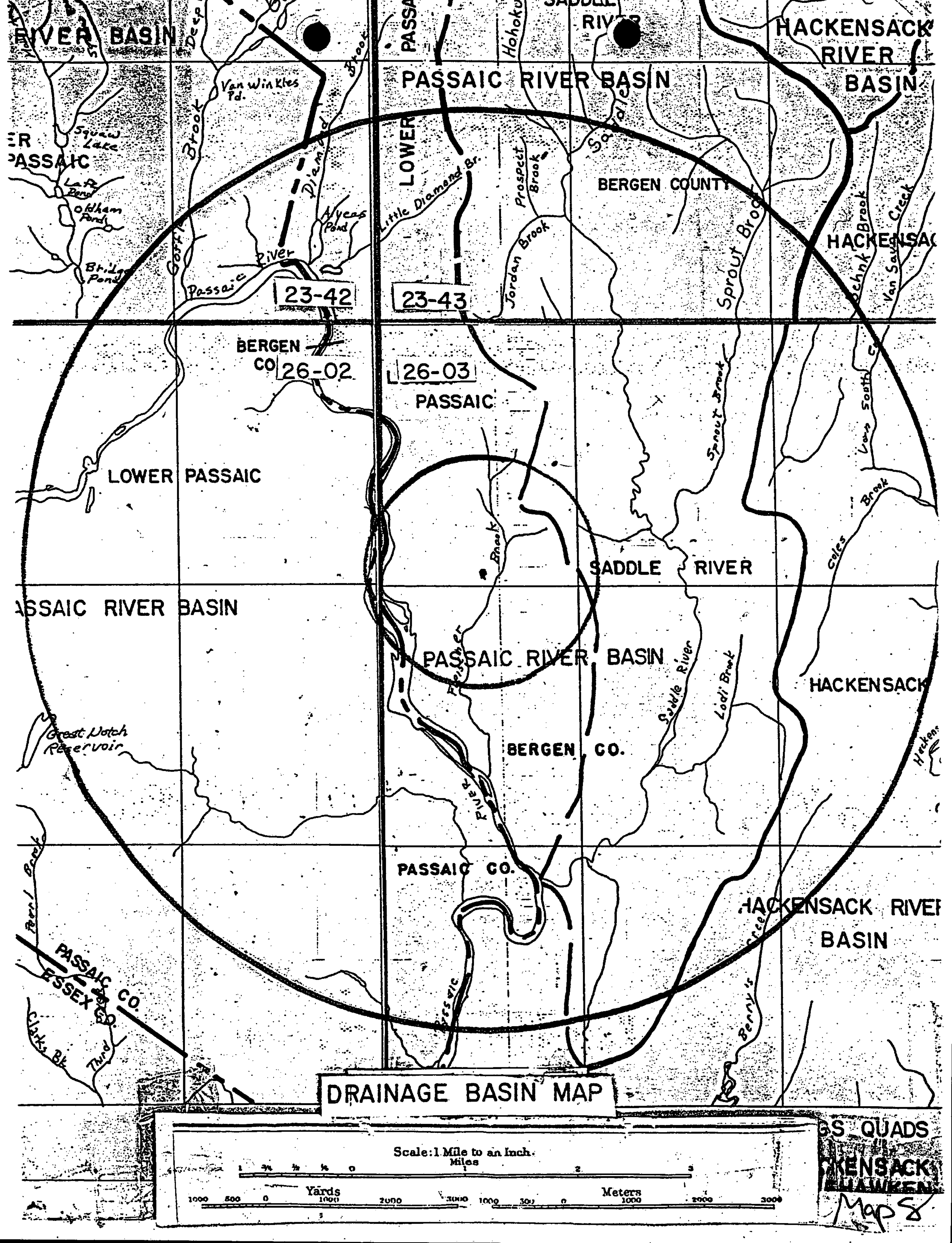
WATER SUPPLY MAP

Scale: 1 Mile to an Inch.

Miles 1 ¾ ½ ¼ 0 1 2 3

Yards 1000 500 0 1000 2000

Meters 3000 1000 500 0 1000 2000 3000


RIVER BASIN
PASSAIC RIVER BASIN
HACKENSACK RIVER BASIN
SADDLE RIVER
LOWER PASSAIC
BERGEN COUNTY
HACKENSACK
23-42
23-43
BERGEN CO
26-02
26-03
PASSAIC
LOWER PASSAIC
SADDLE RIVER
PASSAIC RIVER BASIN
PASSAIC RIVER BASIN
HACKENSACK
BERGEN CO.
PASSAIC CO.
HACKENSACK RIVER BASIN
PASSAIC CO.
ESSEX CO.
Van Winkles Pd.
Squaw Lake
Oldham Pond
Alyeas Pond
Little Diamond Br.
Diamond Brook
Prospect Brook
Jordan Brook
Sprout Brook
Goffle Brook
Passaic River
Van Saun Creek
Coles Brook
Lodi Brook
Saddle River
Berry's Creek
Great Notch Reservoir
Third River
Clarks Bk
Peers Brook
DRAINAGE BASIN MAP
QUADS
Scale: 1 Mile to an Inch.
Miles
Yards
Meters
Map 8

LEGEND FOR ATLAS SHEET 26 (GEOLOGY)

△ — INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE (INCLUDING PRIVATE WELLS)

□ — PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE

⊕ — UNSUCCESSFUL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

⊙ — UNSUCCESSFUL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

⊡ — NO TEST — NO DATA ON YIELD

——— FAULT (DASHED WHERE INFERRED)

——— CONTACT (DASHED WHERE INFERRED)

PHYSIOGRAPHIC PROVINCE BOUNDARY

WATER SUPPLY TRANSMISSION LINE

NOTE: WHERE THE PRECAMBRIAN FORMATION BOUNDARIES TERMINATE ABRUPTLY, IT IS THE GEOLOGIST'S OPINION THAT THE GEOLOGICAL COMPLEXITY OF THE AREA PREVENTS FURTHER INTERPRETATIONS.

Kmr — CRETACEOUS MAGOTHY AND RARITAN FORMATIONS (SAND AND CLAY)

$\overline{T}$rb — TRIASSIC BRUNSWICK FORMATION

$\overline{T}$rc — TRIASSIC CONGLOMERATE BEDS OF THE STOCKTON FORMATION

$\overline{T}$rl — TRIASSIC LOCKATONG FORMATION

$\overline{T}$rdb — TRIASSIC DIABASE

$\overline{T}$rbs — TRIASSIC BASALT FLOWS

Sd — SILURIAN DECKER LIMESTONE AND LONGWOOD SHALE FORMATIONS

Sgp — SILURIAN GREEN POND CONGLOMERATE

Omb — ORDOVICIAN MARTINSBURG SHALE

eOk — CAMBRO ORDOVICIAN KITTATINNY LIMESTONE

€h — CAMBRIAN HARDYSTON SANDSTONE

PRECAMBRIAN:

gh - HORNBLENDE GRANITE WITH PYROXENE GRANITE

ga - ALASKITE

am - AMPHIBOLITE

px - PYROXENE GNEISS

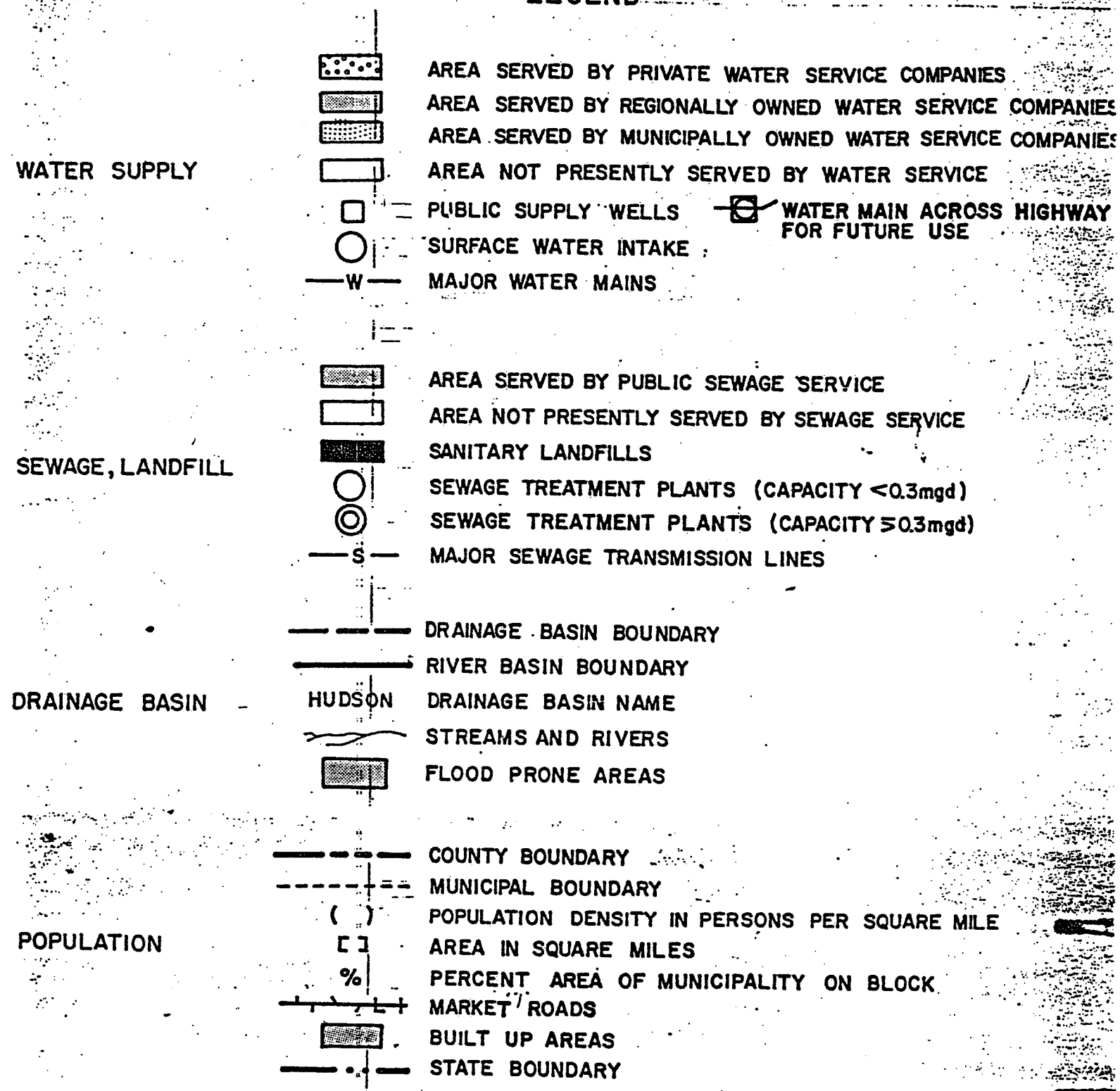
gnq - QUARTZ PLAGIOCLASE GNEISS

gnb - BIOTITE GNEISS

sk - SKARN, GRAPHITE SCHIST

fnd — FORMATION NOT DETERMINED

LEGEND


WATER SUPPLY
AREA SERVED BY PRIVATE WATER SERVICE COMPANIES
AREA SERVED BY REGIONALLY OWNED WATER SERVICE COMPANIES
AREA SERVED BY MUNICIPALLY OWNED WATER SERVICE COMPANIES
AREA NOT PRESENTLY SERVED BY WATER SERVICE
PUBLIC SUPPLY WELLS
WATER MAIN ACROSS HIGHWAY FOR FUTURE USE
SURFACE WATER INTAKE
W
MAJOR WATER MAINS
SEWAGE, LANDFILL
AREA SERVED BY PUBLIC SEWAGE SERVICE
AREA NOT PRESENTLY SERVED BY SEWAGE SERVICE
SANITARY LANDFILLS
SEWAGE TREATMENT PLANTS (CAPACITY <0.3mgd)
SEWAGE TREATMENT PLANTS (CAPACITY ≥0.3mgd)
S
MAJOR SEWAGE TRANSMISSION LINES
DRAINAGE BASIN
DRAINAGE BASIN BOUNDARY
RIVER BASIN BOUNDARY
HUDSON
DRAINAGE BASIN NAME
STREAMS AND RIVERS
FLOOD PRONE AREAS
POPULATION
COUNTY BOUNDARY
MUNICIPAL BOUNDARY
( )
POPULATION DENSITY IN PERSONS PER SQUARE MILE
[ ]
AREA IN SQUARE MILES
%
PERCENT AREA OF MUNICIPALITY ON BLOCK
MARKET ROADS
BUILT UP AREAS
STATE BOUNDARY

Geologic and Topographic Summary:

The majority of area on the Atlas Sheet is within the Mesozoic Lowlands Physiographic Province, a rolling plain with elevations from 0-665' above sea level. The rocks consist of the upper Triassic-Lower Jurassic Newark Group - volcanic and intrusive igneous rocks, argillite, gray and red sandstones, shales, and conglomerates. The fossils sedimentary structures and red color of sediments indicate terrestrial alluvial fan, braided stream and lacustrine environments of deposition. The sediments were originally deposited in the Newark Basin formed by the northwestward tilting of the Paleozoic and Precambrian rocks along the Ramapo Fault.

As the result of tensional forces during the opening of the Atlantic Ocean, fissures were opened in the Newark Basin through which lava flowed forming the Palisades Sill and the Watchung Basalt Flows. Later, faulting, warping, and tilting during the Palisades Disturbance in early Jurassic time and continued erosion exposed the edges of the basalt flows and sill.

The Cretaceous and Cenozoic Coastal Plain sediments consist of gently eastward dipping beds of unconsolidated sand, clay and marl. The Inner Coastal Plain sediments are characterized by clayey soil, while the Outer plain is characterized by sandy soils.

The area shows prominent evidence of glaciation during the Pleistocene. The Hackensack Meadows are the result of glacial erosion and drainage disruptions, thus causing Lake Hackensack to form as shown by varved silts and clays. Remnants of glacial moraines and outwash block some glacial valleys.

Economic mineral deposits include traprock and crushed stone, clay, and sand and gravel. Historically, copper, brownstone, and brick clay were important.

Climate:

	Northern Section		Southern Section	
Precipitation:				
Average annual	48"		41"	
Wet year	67"		53"	
Dry year	30"		26"	
Mean Temperature:	F°	C°	F°	C°
Winter (Dec.-Feb.)	32°	(0°)	33°	(0.6°)
Summer (June-Aug.)	73°	(23°)	74°	(23°)
Coldest month: January				
Warmest month: July				
Average length of growing season:	174 days		219 days	
Average last killing frost in spring:	4/23		4/3	
Average first killing frost in fall:	10/14		11/8	

Prevailing winds in winter months - northwesterly; in summer months - southwesterly.

A. Orange, Paterson

B. Passaic-Lower Passaic

C. 1. Little Falls - Recording and non-recording temperature and precipitation gauges
Paterson - Non-recording temperature and precipitation gauges

2.

Map No.	Location	Period of Record
35	Passaic River at Little Falls	1897-
36	Slippery Rock Brook at Barbours Pond, West Paterson	7/23/45
27	Slippery Rock Brook at Highland Lake, West Paterson	7/23/45
39	Peckman Brook at Bradford Ave.,Cedar Grove	7/23/45
43	Mollyann Brook at Squaw Lake Dam, No.Haledon	7/23/45
45	Mollyann Brook below Redwood Ave.,Paterson	7/23/45
46	Passaic River at Paterson	1898-1955

3.

35	Passaic River at Little Falls	1962-
247	Passaic River at Totowa	1964-
254	Peckman River at Cedar Grove	1964
255	Peckman River at West Paterson	1964-

Water Quality Standards: (explained in Atlas Sheet Description)
FW2 except where classified FW3

D. Brunswick Formation (Trb), Basalt Flows (Trbs)

E. 1. Physiographic Province: Piedmont
Subdivision: Triassic Lowlands
Major Topographic Features: Red Sandstone Plain, Watchung Ridges
Elevations (ft.above sea level): ridges 600, valleys 50
Relief (ft.): 550

2. a. Normal Year: 47"
Dry Year: 38"
Wet Year: 59"

b. January: 31°F
July: 74°F

c. 241 days. Last killing frost: 4/25; first killing frost: 10/20

F. Passaic County:
Preakness Valley Park
Garrett Mountain Reservation
Passaic Valley:
Municipal Watershed
Cedar Grove:
Municipal Watershed

H. Westside Park/Van Houten House, Paterson
Great Falls of Paterson and Society of Useful Manufactors, Historic District, Paterson

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formation
26-02-142	Twp. of Wayne			?	No test	Q
26-02-174	Marcal Paper Products			?	"	"
26-02-177	"			?	"	"
26-02-221	Grand Union Co.	1955	30	41	90	"
26-02-222	Bluebird Dyeing Corp.			65	550	"
26-02-227	Columbia Piece Die Works			235	100	Trdb
26-02-227	"			100	140	"
26-02-234	Fair Lawn Dept. of Pub.Wks.			500	85	Trb
26-02-265	35 Church St. Corp.	1953	32	200	75	"
26-02-265	Garden Theater	1955	35/8	229	200	"
26-02-273	Hudson Piece Dye Works			450	75	Trbs-Trb
26-02-295	Passaic Rolling Mill			2100	100	Trb
26-02-312	Barbizon Corp.			300	385	"
26-02-321	Boque Electric Co.			345	215	"
26-02-326	Spotless Cleaners	1965	30	400	135	"
26-02-332	Lyons Piece Dye Works			584	85	"
26-02-332	"			600	250	"
26-02-334	Fair Lawn Dept.of Pub.Wks.	1964	40	500	85	"
26-02-335	Boro of Fair Lawn			402	475	"
26-02-335	"			413	500	"
26-02-335	Fair Lawn Dept.of Pub.Wks.	1955	47	400	450	"
26-02-335	"	1954	53	500	75	"
26-02-342	Our Lady of Victories	1954	25	300	112	"
26-02-364	Temple Emanuel	1954	17	150	150	"
26-02-373	Madison Ave.Baptist Church	1964	38	250	276	"
26-02-375	River Pulp Co.			400	350	"
26-02-378	Wright's Diner			220	70	"
26-02-378	Heller Candy Co., Inc.	1962	25	315	157	"
26-02-381	Paterson Board of Education	1965	63	312	30	"
26-02-382	First Natl.Bank & Trust	1953	12	200	125	"
26-02-385	Grand Union Co.			199	85	"
26-02-385	Artson Realty Co.			200	100	"
26-02-391	Okonite Co.			?	375	"
26-02-391	"			?	375	"
26-02-391	"			?	375	"
26-02-399	Food Fair Stores, Inc.	1955	21.5	231	150	"
26-02-416	Colorite Color Plastics	1965	45/50	405	2	Trbs
26-02-424	Container Corp.of America	1958	32	600	65	"
26-02-426	Instrument Specialty Co.	1956	33	150	75	Trb-Trbs
26-02-447	Little Falls Laundry			1012	450	Trbs
26-02-579	Bongiorne, Dr.			250	105	Trb
26-02-589	Bolero	1954	50	350	200	"
26-02-618	Pub.Svc.Elec.& Gas			400	164	"
26-02-621	Manhattan Casting Co.	1959	20	220	150	"
26-02-623	Boque Electric Co.			447	75	"
26-02-624	Garafano & Son, Inc.	1965	24	140	201	"
26-02-633	Independence Plating Co.	1954	21.5	402	230	"
26-02-645	F.E.R. Realty Co.,Inc.	1955	32	307	300	"
26-02-653	Natl. Silk & Dyeing Co.			500	125	"
26-02-653	"			600	125	"

				D	V	
26-02-671	Shulton, Inc.	1955	15/28	300	435	Trb
26-02-675	"	1964	20	400	198	"
26-02-676	"	1964	21	300	322	"
26-02-676	Athenia Steel Co.			389	330	"
26-02-687	Eureka Printing Co.	1959	36/40'10"	60	282	"
26-02-688	Federal Sweets & Biscuit Co.			400	280	"
26-02-693	Cosley & Co.	1954	45	250	105	"
26-02-763	Bonds Ice Cream, Inc.			157	150	"
26-02-783	Bellvue Theater			250	145	"
26-02-861	Food Fair Stores			207	150	"
26-02-887	Essex Co.Park Commission			224	164	"
26-02-894	Brookdale Beverage	1957	46	430	85	"
26-02-919	Glopro Realty Co.,Inc.	1958	27	333	92	"
26-02-922	Texstyle Corp.			605	250	"
26-02-925	Standard Packaging Corp.	1955	57	400	190	"
26-02-926	Oneida Paper Prods. Co.			200	100	"
26-02-937	Fritzsche Bros.			600	218	"
26-02-961	Speedway Car Wash Co.	1960	20	500	80	"
26-02-973	Grand Union Co.			102	80	Q-Trb
26-02-973	Brookliff Realty Co.	1962	24	301	190	Trb
26-02-973	Dumont Laboratories	1958	22	305	335	"
26-02-976	Stier, Albert A., Inc.			350	400	Q-Trb

J. Geodetic Control Survey monuments described
Index Maps 15,21; adjacent Index Maps 14,20

BLOCK #26-03 8/76

A. Hackensack, Orange, Paterson, Weehawken

B. Hackensack-Hackensack; Passaic-Saddle River, Lower Passaic

C. 2.

Map No.	Location	Period of Record
53	Passaic River at Dundee Dam, Clifton	7/23/45
61	Saddle River at Lodi	1923-
62	Weasel Brook at Clifton	1937-1961
419	Fleischer Brook, East Paterson (Market St.)	1967-
423	Sprout Brook at Rochelle Park	1965-
3. 242	Overpeck Creek at Ridgefield	1964-
248	Passaic River at Garfield	1964
264	Saddle River at Garfield	1967-

Water Quality Standards: (explained in Atlas Sheet description)
FW3, TW1 except where classified TW2 or TW3

D. Brunswick Formation

E. 1. Physiographic Province: Piedmont
Subdivision: Triassic Lowlands
Major Topographic Features: Red Sandstone Plain
Elevations (ft.above sea level): ridges 150, valleys 0
Relief (ft.): 150

2. a. Normal Year: 45"
Dry Year: 36"
Wet Year: 50"

b. January: 31°F
July: 74°F

c. 245 days. Last killing frost: 4/20; first killing frost: 10/20

F. Bergen County:
Saddle River County Park

H. Von Steuben House, River Edge

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formation
26-03-111	Boro of Fair Lawn			408	380	Trb
26-03-111	"			458	280	"
26-03-112	"			500	143	"
26-03-117	Fair Lawn Dairy Co.,Inc.	1955	62	205	125	"
26-03-124	Fair Lawn Water Dept.	1954	47	200	173	"
26-03-127	Fair Lawn Dept.of Pub.Wks.	1955	48/53	400	165	"
26-03-127	Boro of Fair Lawn			338	245	"
26-03-137	Metro Glass			200	120	"
26-03-146	Ellwood Stores Inc.	1952	22	692	100	"
26-03-161	Boro of Wallington			300	304	"
26-03-171	Garfield Boro Water Dept.			330	95	"
26-03-174	Marcal Paper Mills, Inc.	1962	25	35	35	Q
26-03-177	"	1962	23	27	No test	"
26-02-177	"	1962	8	20	"	"
26-03-177	"	1962	22	30	"	"
26-03-178	Sausville, J. & Son			300	100	Trb
26-03-188	Rel Plastic Corp.	1952	79	150	75	"
26-03-211	Boro of Fair Lawn			500	65	"
26-03-217	Farmland Dairies, Inc.	1974	47	635	235	"
26-03-231	All Purpose Roll Leaf	1962	71	350	100	"
26-03-256	Hackensack Water Co.	1965	77'10"	473	250	"
26-03-259	Bijur Lubricating Corp.			175	200	"
26-03-262	Alexander's Dept. Store	1961	25	35	290	Q
26-03-355	Hackensack Water Co.	1959		75	No test	Trb
26-03-382	Lodi Dept.of Public Works			450	175	"
26-03-394	Spartan Typographers Inc.	1956	135	145	75	Q
26-03-394	Hackensack Cable Co.	1958	106	120	171	Trb
26-03-426	East Paterson, Boro of	1954	80	200	180	"
26-03-427	Boro of Wallington			400	350	"
26-03-453	City of Garfield	1966	57/77	475	77	"
26-03-456	"	1967	33/56	400	328	"
26-03-456	"	1966	20/43	710	30	"
26-03-457	Whippany Paper Board	1956	54	250	312	"
26-03-469	City of Garfield			273	95	"
26-03-469	"			320	130	"
26-03-469	"			165	400	"
26-03-483	"	1966	21/40	400	25	"
26-03-485	Botany Worsted Mills			81	7	"
26-03-489	City of Garfield	1967	61.5	276	No test	"
26-03-493	"			326	89	"
26-03-496	Laurel Co.			500	100	"
26-03-497	Heyden Chemical Works			375	90	"
26-03-535	Aquarium, Inc.	1963	22	300	172	"
26-03-536	Maywood Chemical Co.			220	400	"
26-03-536	Citro Chemical Co.			220	400	"
26-03-538	Lodi, Boro of			403	600	"
26-03-542	City of Garfield	1968	15/35	405	405	"
26-03-546	Lodi, Boro of			300	170	"
26-03-548	"			?	135	"
26-03-548	"			200	125	"
26-03-554	Lodi Dept.of Public Works	1965	20/40	510	100	"

26-03-557	Washine Chemical Co.	1966	29'4"/ 46'10-1/2"	400	100	Trb
26-03-561	Boro of Lodi			?	295	"
26-03-563	Lodi Shopping Center	1960	22	300	290	"
26-03-563	"	1956	20'8"	301	350	"
26-03-563	Muscarelle, J.L., Inc.	1966	32	400	159	"
26-03-566	Interchemical Corp.			435	187	"
26-03-566	Spiegal Mfg. Corp.	1969	34/43	300	237	"
26-03-567	Master Etching Corp.	1965	29	400	105	"
26-03-575	Boro of Lodi	1954	31'5"/ 53'1"	459	157	"
26-03-577	Yoo-Hoo Beverage Co.	1959	22	303	95	"
26-03-581	Boro of Lodi			?	145	"
26-03-582	Lodi Dept.of Public Works	1965	36/56	450	175	"
26-03-586	Boro of Lodi			?	109	"
26-03-591	"	1966	28/48	470	285	"
26-03-594	"			350	85	"
26-03-623	Hackensack Water Co.			189	215	Q
26-03-632	"	1954	130/ 148'8"	168	1700	"
26-03-632	"	1955	168	190	1420	"
26-03-659	Bowler City	1958	120	400	108	Trb
26-03-667	Food Fair Stores	1954	270	525	55	"
26-03-687	Spinnerin Yarn	1965	110	400	55	"
26-03-691	Seilheimer Beverage Co.	1958	115	415	76	"
26-03-715	Farmland Dairy Inc.	1968	12/50	400	25	"
26-03-728	Paterson Parchment Paper Co.			378	53	"
26-03-731	Prescott, J.L. & Co.	1962	90	500	25	"
26-03-731	Tendebrands Frozen Foods	1950	76	230	100	"
26-03-756	Boro of Wallington	1964	118.5	300	30	"
26-03-768	"	1965	40	400	217	"
26-03-793	"			300	330	"
26-03-816	Wright Aeronautical Eqpt.	1957		340	515	"
26-03-817	Tube Reducing Corp.	1954	20	397	90	"
26-03-817	"	1954	31	392	20	"
26-03-859	Terminal Construction Co.	1952	20	145	120	"
26-03-888	Hackensack Water Co.	1955	86	86	300	Q
26-03-888	"	1955		263	No test	Q
26-03-888	Lancaster Chemical Co.	1963	311/287	400	55	Trb
26-03-894	Hackensack Water Co.	1955		243	60	Q
26-03-899	World Plastic Extruders,Inc.	1966	53	200	100	Trb
26-03-924	DeTroy Press, Inc.	1956	67	150	95	"
26-03-962	Stage Coach Inn			565	110	"

J. Geodetic Control Survey monuments described
Index Maps 15,21; adjacent Index Map 16

BLOCK #23-42

8/76

A. Paterson

B. Passaic-Lower Passaic, Ramapo, Saddle River

C. 1. Midland Park - Non-recording precipitation gauge

2.

Map No.	Location	Period of Record
40	Mollyann Brook at Haledon Upper Res., No.Haledon	7/23/45
41	Mollyann Brook at Haledon Lower Reservoir, No. Haledon	"
42	Mollyann Brook at Sicomac Rd. Dam,No.Haledon	"
43	Mollyann Brook at Squaw Lake Dam, No.Haledon	"
44	Mollyann Brook at Oldham Pond Dam,No.Haledon	"
45	Goffle Brook at Maple Lake, Wortendyke	"
49	Goffle Brook at Wortendyke Pond, Wortendyke	"
50	Goffle Brook at Kenihers Dam, Midland Park	"
51	Goffle Brook at Oriental Rug Dam, Midland Park	"
52	Goffle Brook at Arnold Dam, Hawthorne	"

Water Quality Standards: (explained in Atlas Sheet description) FW2 except where FW3

D. Brunswick Formation (Trb), Basalt Flows (Trbs)

E. 1. Physiographic Province: Piedmont
Subdivision: Triassic Lowlands
Major Topographic Features: Red Sandstone Plain, Watchung Ridges
Elevations (ft.above sea level): ridges 900, valleys 50
Relief (ft.): 850

2. a. Normal Year: 48"
Dry Year: 41"
Wet Year: 59"

b. January: 30°F
July: 74°F

c. 242 days. Last killing frost: 4/15; first killing frost: 10/25

3. Land Use Map available

F. Haledon Water Department - Municipal Watershed

BLOCK #23-43 8/76

A. Hackensack, Paterson

B. Hackensack-Pascack Creek, Hackensack; Passaic-Saddle River, Lower Passaic

C. 2.

Map No.	Location	Period of Record
55	Saddle River at Ridgewood	1955-
56	Hohokus Lake at Cooks Lake Dam	7/23/45
59	Hohokus Brook at Hohokus	1954-
60	Hohokus Brook below Spring Ave.,Ridgewood	7/23/45
410	Musquapsink Brook near Westwood	1965-
422	Saddle River at Paramus	1965
3. 265	Saddle River at Grove St., Ridgewood	1967-
277	Hohokus Brook at Ridgewood	1967-
268	Sprout Brook at Midland Ave., River Edge	1967-

Water Quality Standards: (explained in Atlas Sheet description)
FW2, TW1 except where classified FW3

D. Brunswick Formation (Trb)

E. 1. Physiographic Province: Piedmont
Subdivision: Triassic Lowlands
Major Topographic Features: Red Sandstone Plain
Elevations (ft.above sea level): ridges 400, valleys 50
Relief (ft.): 350

2. a. Normal Year: 46"
Dry Year: 39"
Wet Year: 53"

b. January: 31°F
July: 74°F

c. 245 days. Last killing frost: 4/15; first killing frost: 10/25

3. Land Use Map available

F. Bergen County:
Saddle River County Park
Municipal Watershed:
Newton

H. Seven Chimneys, Westwood
Terhune/Gardner/Lindenmeyer House, Paramus

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting Depth of of Casing	Total Depth	g/m Yield	Formation
23-43-114	Ridgewood Village			402	350	Trb
23-43-123	Hohokus Boro	1963	52	300	411	"
23-43-127/8	Ridgewood Village (8 wells)			150(av)	95(av)	"
23-43-131	Hohokus Boro			300	200	"
23-43-133	"	1955	39	301	288	"
23-43-158	Grand Union			178	190	"
23-43-159	Food Fair Stores	1955	71	310	250	"
23-43-174	Ridgewood Village	1955	35/56	300	43	"
23-43-177	"			300	198	"
23-43-191	"	1964	52/54	300	1230	"
23-43-198	"			298	200	"
23-43-212	Hohokus Boro			412	105	"
23-43-215	"			314	245	"
23-43-224	Sher, M.	1963	30	205	100	"
23-43-245	Ridgewood Village	1955	42/64	300	200	"
23-43-248	"			201	500	"
23-43-252	"	1964	18/42	320	390	"
23-43-275	"			210	250	"
23-43-285	Peterman, J.	1961	30	165	100	"
23-43-332	Westwood Fuel Co.	1960	56	236	75	"
23-43-371	McKenna			605	210	"
23-43-431	Faber, J.	1964	52	85	75	"
23-43-434	Ridgewood Village			300	162	"
23-43-436	"	1955	44/64	300	165	"
23-43-437	"	1957	36/40	303	340	"
23-43-438	"	1965	51/73	300	254	"
23-43-457	City Housing Corp.			300	30	"
23-43-462	Ridgewood Village			300	151	"
23-43-463	"	1965	65/86	300	151	"
23-43-473	Einson & Freeman Co.			325	168	"
23-43-482	City Housing Corp.			250	30	"
23-43-487	"			378	137	"
23-43-488	Fairlawn Boro			350	385	"
23-43-489	"			250	125	"
23-43-511	Ridgewood, Village of	1973	78	300	159	"
23-43-562	Great Eastern Mills, Inc.	1956	21	200	250	"
23-43-565	"	1956	34	203	250	"
23-43-582	Ridgewood Country Club	1964	29	500	250	"
23-43-591	N.Y. Twist Drill Co.			200	125	"
23-43-598	N.J. 17 Corp.			245	80	"
23-43-632	Hackensack Golf Club	1958	81	532	172	"
23-43-641	Paramus Bd.of Ch.Freeholders	1957	54	300	150	"

J. Geodetic Control Survey monuments described
Index Map 15; adjacent Index Maps 9,10,16

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formation
23-42-119	Franklin Lakes Bd.of Ed.	1962	84	84	250	Qp
23-42-128	Urban Farms	1962	87	87	200	"
23-42-162	Franklin Lakes Dairy			400	100	Trb
23-42-165	"			307	100	"
23-42-216	Ramapo Regional H.S.	1956	68	303	150	"
23-42-221	Ridgewood Village	1956		300	159	"
23-42-226	"			303	159	"
23-42-233	"	1965		300	503	"
23-42-235	"	1956		300	258	"
23-42-255	"	1959		302	450	"
23-42-272	Haledon Boro			700	25	"
23-42-281	Holland Home Assoc.	1959	20	333	100	"
23-42-318	Pines Lakes			203	125	"
23-42-325	Ridgewood Village	1958	24	303	251	"
23-42-326	"			715	225	"
23-42-329	Montabert, F., Co.	1954	10	300	125	"
23-42-341	Summer, A., Co.			206	70	Qp,Trb
23-42-342	Wayne Twp.			200	175	Trb,Trbs
23-42-352	Ridgewood Village(12 wells)			125av.	Good	Trb
23-42-353	King, H.			185	100	"
23-42-357	Ridgewood Village	1957		350	450	"
23-42-365	Grand Union			178	190	"
23-42-378	Hawthorne Boro			350	215	"
23-42-378	"	1962		350	215	"
23-42-383	Ridgewood Village	1956		300	245	"
23-42-388	Hawthorne Boro	1963		350	268	"
23-42-427	N.J. Country Club	1959	28	45	150	Qp
23-42-443	"	1958	28	45	150	"
23-42-533	Wah-Chang	1960	40	302	510	Trb
23-42-554	Ideal Farms	1960	96	285	160	"
23-42-613	Hawthorne Boro			113-250 (3 wells)	130	"
23-42-626	"			300	225	"
23-42-642	"	1961		300	500	"
23-42-651	"	1960	40	300	225	"
23-42-656	Pacquin, Inc.			350	350	"
23-42-659	"			541	250	"
23-42-664	Textile Dyeing Co.of Am.			400	459	"
23-42-666	Ridgewood Village	1956		300	142	"
23-42-667	Fairlawn Boro			200	200	"
23-42-668	Einson & Freeman	1956	19	325	168	"
23-42-683	Victory Diner			250	80	"
23-42-688	Morris Paperboard Co.	1958	22	400	249	"
23-42-694	Fairlawn Finishing Co.	1951	32	503	450	"
23-42-695	Henderson's Pond			451	275	"
23-42-696	National Biscuit Co.	1962	58	393	138	"
23-42-696	Fairbanks Morse Co.	1955	29	121	92	"
23-42-697	Lomor Corp.			400	225	"
23-42-699	1st Savings & Loan Assoc.			150	110	"

J. Geodetic Control Survey monuments described
Index Map 15; adjacent Index Maps 14,9,10

SUBJECT TO REVISION

WATER WITHDRAWAL POINTS AND NJGS CASE INDEX SITES WITHIN 5.0 MILES OF:

LATITUDE 405410
LONGITUDE 740700

DRAFT

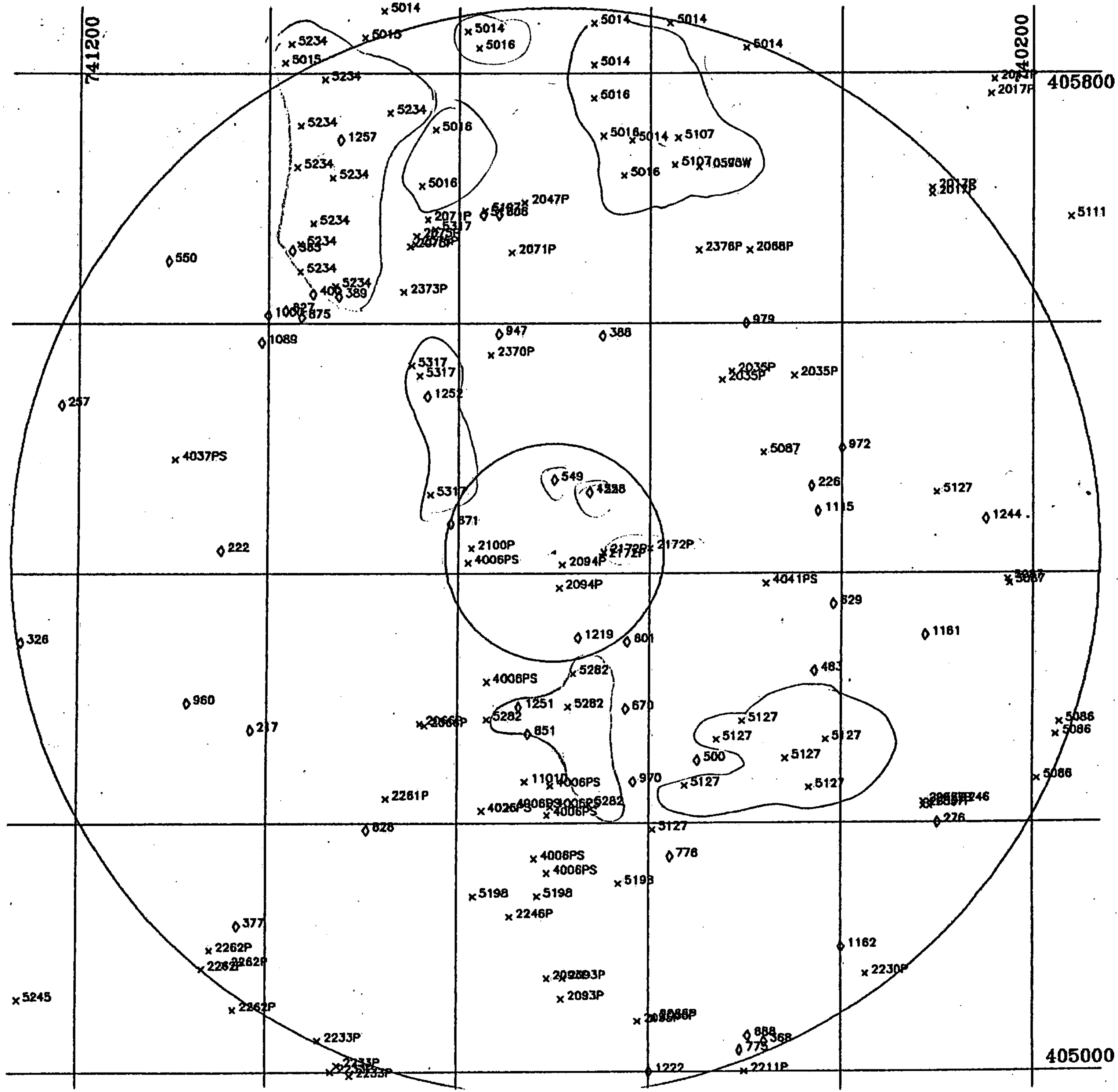
SCALE: 1:63,360
(1 Inch = 1 Mile)

× WATER WITHDRAWAL POINTS
◊ NJGS CASE INDEX SITES
1 MILE AND 5 MILE RADII INDICATED

NJGS CASE INDEX DATA RETRIEVED FROM:
NEW JERSEY GEOLOGICAL SURVEY
ON 12/22/87

PLOT PRODUCED BY:
NJDEP
DIVISION OF WATER RESOURCES
BUREAU OF WATER ALLOCATION
CN-029
TRENTON, NJ 08625

DATE: 03/07/89



SUBJECT TO REVISION

 PRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 405410 LAT. 740700 LON. (IN ORDER BY PERMIT NUMBER) - 03/07/89

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
10573W	BERGEN CO. COMMUNITY COLLEGE	4300101		405715	740530	F	3.8	03	46	200	GTRB		180
10590W	BERGEN CO. DIV. OF PARKS	4300100		405715	740530	F	3.8	03	46	210	GTRB		275
1101D	FOSTER WHEELER PASSAIC, INC.			405220	740718		2.1	31	07	46	GD		175
2017P	HACKENSACK GOLF CLUB	2302297	1	405757	740225	S	5.9	03	44	532	GTRB		150
	HACKENSACK GOLF CLUB	2305058	2	405702	740304	S	4.8	03	44	320	GTRB		60
	HACKENSACK GOLF CLUB	LOWER LAKE	1	405705	740304	F	4.8	03	44		GTRB		300
	HACKENSACK GOLF CLUB	UPPER LAKE	2	405750	740227	F	5.8	03	44		GTRB		300
2035P	ARCOLA COUNTRY CLUB	4600126	3	405533	740515	S	2.2	03	46	200	GTRB		160
	ARCOLA COUNTRY CLUB	2603872	4	405537	740509	S	2.3	03	46	208	GTRB		125
	ARCOLA COUNTRY CLUB	POND	1	405535	740430	U	2.7	03	46	5	GTRB		200
	ARCOLA COUNTRY CLUB	POND	2	405535	740430	U	2.7	03	46	15	GTRB		200
2047P	NABISCO BRANDS, INC.	2303369	2	405658	740719	S	3.2	03	17	393	GTRB		350
2055P	GANES CHEMICAL, INC.	4600080	2	405026	740557	F	4.4	03	05	490	GTRB		200
	GANES CHEMICAL, INC.	2600005	4	405024	740607	F	4.4	03	05	526	GTRB		80
	GANES CHEMICAL, INC.	2604277	5	405025	740557	F	4.4	03	05	430	GTRB		30
2057P	SPINNERIN YARN CO., INC.	4600177	0	405208	740309	F	4.1	03	59	404	GTRB		65
	SPINNERIN YARN CO., INC.	4600083	2	405210	740305	F	4.1	03	59	435	GTRB		0
	SPINNERIN YARN CO., INC.	2603018	3	405210	740309	F	4.1	03	59	400	GTRB		50
	SPINNERIN YARN CO., INC.	4600176	4	405208	740305	F	4.1	03	59	400	GTRB		140
	SPINNERIN YARN CO., INC.	2611599	5 PROPOSED	405210	740305	F	4.1	03	59		GTRB		
2066P	MILES LABORATORIES	2603833	2	405248	740824	M	2.0	31	02	300	GTRB		200
	MILES LABORATORIES	2604613	3	405247	740821	M	2.0	31	02	408	GTRB		200
2068P	RIDGEWOOD COUNTRY CLUB	4300032	1	405635	740458	U	3.3	03	46	306	GTRB		120
	RIDGEWOOD COUNTRY CLUB	4300033	2	405635	740458	U	3.3	03	46	275	GTRB		275
	RIDGEWOOD COUNTRY CLUB	2303832	3	405635	740458	S	3.3	03	46	500	GTRB		250
	RIDGEWOOD COUNTRY CLUB	POND		405635	740458	U	3.3	03	46	8	GTRB		500
2071P	POSKANZER TULP COMPANY	2301946	1	405634	740727	S	2.8	03	17	390	GTRB		80
	POSKANZER TULP COMPANY	2302038	2	405650	740820	F	3.3	03	17	325	GTRB		90
	POSKANZER TULP COMPANY	2302081	3	405650	740820	F	3.3	03	17	302	GTRB		90
2075P	MAC NAUGHTON EINSON GRAPHICS	4300001	14	405637	740831	S	3.1	03	17	400	GTRB		250
	MAC NAUGHTON EINSON GRAPHICS	4300002	15	405638	740828	S	3.1	03	17	400	GTRB		275
	MAC NAUGHTON EINSON GRAPHICS	4300003	16	405642	740827	S	3.2	03	17	400	GTRB		330
2093P	ORVAL KENT FOOD COMPANY, INC.	2604317	1	405045	740704	F	3.9	03	12	580	GTRB		150
	ORVAL KENT FOOD COMPANY, INC.	2604341	2	405045	740654	S	3.9	03	12	300	GTRB		150
	ORVAL KENT FOOD COMPANY, INC.	2604382	3	405035	740655	T	4.1	03	12	470	GTRB		430
2094P	D.A.K. MANUFACTURING CORP.	2600466	1	405404	740655	F	0.1	03	11		GTRB		
	D.A.K. MANUFACTURING CORP.	4600210	2	405404	740655	U	0.1	03	11		GTRB		
	D.A.K. MANUFACTURING CORP.	4600211	3	405404	740655	U	0.1	03	11		GTRB		
	D.A.K. MANUFACTURING CORP.	2605037	4	405353	740657	F	0.3	03	11	250	GTRB		60
2100P	MARCAL PAPER MILLS, INC.	4600008	1	405412	740752	F	0.8	03	11	308	GTRB		150
	MARCAL PAPER MILLS, INC.	4600009	2	405412	740752	F	0.8	03	11	330	GTRB		280
	MARCAL PAPER MILLS, INC.	4600010	3	405412	740752	F	0.8	03	11	325	GTRB		250
	MARCAL PAPER MILLS, INC.	4600011	4	405412	740752	F	0.8	03	11	282	GTRB		80
	MARCAL PAPER MILLS, INC.	4600012	5	405412	740752	F	0.8	03	11		GTRB		125
	MARCAL PAPER MILLS, INC.	4600013	6	405412	740752	F	0.8	03	11		GTRB		300
2172P	PARK 80-KIDDIE ASSOCIATES	2604234	1	405408	740630	S	0.4	03	57	400	GTRB		300
	PARK 80-KIDDIE ASSOCIATES	2604235	2	405410	740629	S	0.5	03	57	400	GTRB		300
	PARK 80-KIDDIE ASSOCIATES	2605301	3	405410	740629	S	0.5	03	57	300	GTRB		0
	PARK 80-KIDDIE ASSOCIATES	2604104	4	405412	740600	S	0.9	03	57	300	GTRB		
2211P	HENKEL PROCESS CHEMICALS, INC.	4600125	1	405000	740500		5.1	03	05	170	GOSD		600
2230P	HOFFMAN LAROCHE INC.	2406268	1	405047	740345	T	4.8	41	03	140	GD		700
2233P	HOFFMANN-LAROCHE INC.	4600155	20	405000	740919	F	5.2	13	16	402	GTRB		100
	HOFFMANN-LAROCHE INC.	4600156	32	405015	740927	F	5.0	31	02	650	GTRB		260
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	F	5.1	31	02		GTRB		145

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
	LODI BOROUGH	4600072	LAWRENCE	405217	740420	U	3.2	03	31	373	GTRB		500
	LODI BOROUGH	4600073	COLUMBIA	405240	740410	U	3.0	03	31	409	GTRB		375
	LODI BOROUGH	2601037	TERRACE	405157	740558		2.7	03	31	607	GTRB		190
	LODI BOROUGH	2601010	GARFIELD	405218	740538		2.5	03	31	459	GTRB		150
	LODI BOROUGH	2603185	HOME PLACE	405439	740301		3.5	03	31	450	GTRB		175
	LODI BOROUGH	2603183	CORABELLE	405231	740435		2.8	03	31	470	GTRB		200
5198	WALLINGTON BOROUGH	2603933	DUL	405131	740619		3.1	03	65	400	GTRB		140
	WALLINGTON BOROUGH	2603027	LESTER ST	405125	740710		3.2	03	65	400	GTRB		130
	WALLINGTON BOROUGH	4600075	8	405125	740750		3.2	03	65	503	GTRB		80
	WALLINGTON BOROUGH	4600074	5	405125	740750		3.2	03	65	506	GTRB		150
5234	HAWTHORNE BOROUGH	4300056	1	405757	740925	T	4.8	31	04	293	GTRB		175
	HAWTHORNE BOROUGH	4300057	3	405757	740925	T	4.8	31	04	300	GTRB		150
	HAWTHORNE BOROUGH	4300058	4	405757	740925	T	4.8	31	04	315	GTRB		250
	HAWTHORNE BOROUGH	4300059	5	405757	740925	T	4.8	31	04	300	GTRB		180
	HAWTHORNE BOROUGH	4300060	6	405757	740925	T	4.8	31	04	485	GTRB		250
	HAWTHORNE BOROUGH	4300061	3	405625	740940	T	3.5	31	04	300	GTRB		100
	HAWTHORNE BOROUGH	4300062	4	405625	740940	T	3.5	31	04	300	GTRB		75
	HAWTHORNE BOROUGH	4300063	5	405625	740940	T	3.5	31	04	285	GTRB		210
	HAWTHORNE BOROUGH	4300064	6	405625	740940	T	3.5	31	04	388	GTRB		150
	HAWTHORNE BOROUGH	4300065	7	405625	740940	T	3.5	31	04	369	GTRB		140
	HAWTHORNE BOROUGH	4300066	8	405625	740940	T	3.5	31	04	416	GTRB		210
	HAWTHORNE BOROUGH	4300067	10	405618	740918	T	3.2	31	04	300	GTRB		200
	HAWTHORNE BOROUGH	4600068	11	405618	740918	T	3.2	31	04	300	GTRB		400
	HAWTHORNE BOROUGH	4300069	12	405618	740918	T	3.2	31	04	300	GTRB		400
	HAWTHORNE BOROUGH	2303100	UTTER AVE	405741	740844		4.3	31	04	300	GTRB		175
	HAWTHORNE BOROUGH	2303099	GRAND AVE	405710	740920	F	4.0	31	04	300	GTRB		125
	HAWTHORNE BOROUGH	2303101	BAMFORD AV	405715	740942	F	4.3	31	04	300	GTRB		300
	HAWTHORNE BOROUGH	2303289	GOFFLE HIL	405814	740946		5.3	31	04	350	GTRB		150
	HAWTHORNE BOROUGH	2304139	CEDAR AVE	405648	740932	T	3.7	31	04	400	GTRB		300
	HAWTHORNE BOROUGH	2304691	FIRST ST.	405735	740940	F	4.6	31	04	400	GTRB		200
	HAWTHORNE BOROUGH	2305139	MAITLAND	405638	740940	F	3.7	31	04	400	GTRB		200
5245	MONTCLAIR TOWN	2604597	LORRAINE 3	405035	741237	F	6.4	13	13	300	GTRBG		400
5282	GARFIELD WATER DEPARTMENT	2604016	1A	405256	740651		1.4	03	21	400	GTRB		300
	GARFIELD WATER DEPARTMENT	2604063	2	405312	740648	U	1.1	03	21	475	GTRB		150
	GARFIELD WATER DEPARTMENT	2604010	5	405209	740638		2.3	03	21	276	GTRB		150
	GARFIELD WATER DEPARTMENT	2604064	8C	405250	740742		1.6	03	21	405	GTRB		400
5317	FAIR LAWN BOROUGH	2600465	16	405540	740830		2.2	03	17	413	GTRB		140
	FAIR LAWN BOROUGH	2601197	19	405438	740818		1.3	03	17	400	GTRB		260
	FAIR LAWN BOROUGH	4300097	14	405645	740815		3.2	03	17	400	GTRB		150
	FAIR LAWN BOROUGH	2600393	15	405535	740825	F	2.0	03	17	402	GTRB		500

Number of Observations: 151

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
2246P	FARMLAND DAIRIES INC.	2604169	1	405115	740727	U	3.4	03	65	300	GTRB		200
	FARMLAND DAIRIES INC.	2304250	2	405115	740727	U	3.4	03	65	300	GTRB		185
2261P	FRITZCHE DODGE & OLCOTT	2602812	2	405212	740845	U	2.7	31	02	600	GTRB		218
2262P	UPPER MONTCLAIR COUNTRY CLUB	2601199	1	405052	741025		4.8	31	02	490	GTRB		90
	UPPER MONTCLAIR COUNTRY CLUB	2604390	2	405059	741035		4.8	13	02	335	GTRB		132
	UPPER MONTCLAIR COUNTRY CLUB	2604825	3	405030	741020	T	5.1	31	02	300	GTRB		60
	UPPER MONTCLAIR COUNTRY CLUB	POND	SW	405050	741040	T	5.0	13	02	12	GOSD		1100
2370P	FISHER SCIENTIFIC CO. CHEM DIV	2605038	PW2	405545	740740		1.9	03	17	335	GTRB		60
2373P	CHINAM, INC.	4300098	1	405615	740835	T	2.8	31	08	800	GTRB		70
	CHINAM, INC.	4300099	2	405615	740835	T	2.8	31	08	800	GTRB		203
	CHINAM, INC.	2300369	3	405615	740835	T	2.8	31	08	625	GTRB		119
	CHINAM, INC.	2302336	4	405615	740835	T	2.8	31	08	400	GTRB		188
2376P	PARAMUS GOLF AND COUNTRY CLUB	4300095	2	405635	740530	F	3.1	03	46	200	GTRB		200
	PARAMUS GOLF AND COUNTRY CLUB	STORAGE POND		405635	740530	F	3.1	03	46		GTRB		350
4006PS	DUNDEE WATER POWER & LAND CO.	DUNDEE LAKE	G.S. PAPER	405308	740742	T	1.3	03	21		SPPAS		
	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	WHIPPANY	405208	740727	T	2.4	31	02		SP		
	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	CHELTON CO	405208	740702	T	2.3	31	02		SP		
	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	OKONITE CO	405143	740712	T	2.8	31	07		SP		
	DUNDEE WATER POWER & LAND CO.	DUNDEE LK.	MARCAL CO.	405405	740754	T	0.8	03	11		SPPAS		
	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	PASSAIC IN	405218	740702	T	2.1	31	02		SP		
	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	TUCK IND.	405136	740704	T	2.9	31	07		SP		
	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	PANTASOTE	405204	740704	T	2.4	31	02		SP		
				405206	740745	T	2.5	03	21		SPPAS		
4025PS	KALAMA CHEMICAL, INC.	PASSAIC RIVER		405455	741058		3.6	31	08		SPPAS		
4037PS	GREAT FALLS HYDROELECTRIC CO	PASSAIC RIVER		405355	740447		2.0	03	54		SPSAD		2000
4041PS	STEPAN CHEMICAL COMPANY	SADDLE RIVER		405804	740636		4.5	03	51	298	GTRB		200
5014	RIDGEWOOD VILLAGE	4300013	GROVE ST.	405824	740548		5.0	03	51	201	GTRB		600
	RIDGEWOOD VILLAGE	4300014	E. RDGEWD.	405824	740636		4.9	03	51	300	GTRB		300
	RIDGEWOOD VILLAGE	2301644	SPRING	405830	740848		5.2	03	51	300	GTRB		200
	RIDGEWOOD VILLAGE	2301836	RAVINE	405812	740500		4.9	03	51	320	GTRB		225
	RIDGEWOOD VILLAGE	2303902	SALEM	405728	740612		3.9	03	51	300	GTRB		225
	RIDGEWOOD VILLAGE	2304170	STEVENS	405820	740755		4.8	03	51	300	GTRB		
	RIDGEWOOD VILLAGE	2305931	WEST END	405805	740950	F	5.1	03	70	300	GTRB		450
5015	RIDGEWOOD VILLAGE	2305158	WEISH	405817	740900		5.0	03	70	287	GTRB		400
	RIDGEWOOD VILLAGE	2513251	FARM WELL	405706	740824		3.6	03	22	300	GTRB		350
5016	RIDGEWOOD VILLAGE	2301443	MAIN	405748	740636		4.2	03	22	300	GTRB		400
	RIDGEWOOD VILLAGE	2301770	PROSPECT	405730	740630		3.9	03	22	303	GTRB		250
	RIDGEWOOD VILLAGE	2302227	AKERMAN	405812	740748		4.7	03	22	300	GTRB		150
	RIDGEWOOD VILLAGE	2301835	GLEN ROCK	405711	740617		3.5	03	22	300	GTRB		125
	RIDGEWOOD VILLAGE	2304171	LEIGH	405733	740815		4.0	03	22	300	GTRB		125
	RIDGEWOOD VILLAGE	2304172	BROOK	405221	740157		4.9	03	04	550	GTRB		180
5086	HACKENSACK WATER COMPANY	4600065	2	405248	740143		4.9	03	04	350	GTRB		175
	HACKENSACK WATER COMPANY	4600066	3	405242	740145		4.9	03	04	235	GTRB		
	HACKENSACK WATER COMPANY	4600067	4	405357	740216		4.1	03	23	168	GOSD		1550
5087	HACKENSACK WATER COMPANY	2600914	1	405355	740215		4.2	03	23	190	GOSD		1400
	HACKENSACK WATER COMPANY	2601034	2	405458	740449		2.1	03	54	473	GTRB		200
	HACKENSACK WATER COMPANY	2603017	ROCHELLE P	405716	740545		3.7	03	46	28	GOSD		200
5107	HACKENSACK WATER COMPANY	2304260	PARAMUS 1	405716	740545		3.7	03	46	388	GTRB		150
	HACKENSACK WATER COMPANY	2305502	PARAMUS 2	405654	740744		3.2	03	46	353	GTRB		
	HACKENSACK WATER COMPANY	2305450	DUNDERHOOK	405729	740543		4.0	03	46		SPSAD		
	HACKENSACK WATER COMPANY	SADDLE RIVER		405651	740136	U	5.6	03	38		SKHAC		
5111	HACKENSACK WATER COMPANY	HACKENSACK RIV		405651	740136	U	5.6	03	38		SKHAC		
	HACKENSACK WATER COMPANY	HIRSCHFIELD BR		405240	740518		2.3	03	31	300	GTRB		160
5127	LODI BOROUGH	4600068	ARNOT ST.	405249	740502		2.3	03	31	307	GTRB		295
	LODI BOROUGH	4600069	4	405249	740502		2.3	03	31	300	GTRB		355
	LODI BOROUGH	4600070	5	405249	740502		2.3	03	31	332	GTRB		355
	LODI BOROUGH	4600071	7										

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director
Hazardous Waste Operations

John J. Trela, Ph.D., Director
401 East State St.
CN 028
Trenton, N.J. 08625-0028
(609)633-1408

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

M E M O R A N D U M

TO: Richard Gervasio, Supervisory Environmental Technician
Bureau of Planning and Assessment

FROM: David Van Eck, HSMS III
Bureau of Planning and Assessment

SUBJECT: SAMPLING EPISODE REPORT FOR
SYNKOTE PAINT COMPANY
ELMWOOD PARK, BERGEN COUNTY

PURPOSE:
To outline sampling activities by Bureau of Planning and Assessment personnel at the subject site.

NJDEP REPRESENTATIVES:
Richard Gervasio, Supervisory Environmental Technician
David Van Eck, HSMS III
David Oster, Environmental Specialist, Metro Region

LOCAL REPRESENTATIVES:
James Taradash, Bergen County Health Services

DATE OF SAMPLING: January 24, 1989

DATE OF REPORT: January 27, 1989

COMMENTS:
Synkote Paint Company is located in a mixed industrial/residential area in Elmwood Park, Bergen County. The site, approximately on quarter acre in size, was used for the manufacture of industrial coatings, using pigments, resins and solvents from 1956 to 1985. Hazardous wastes were generated when the company washed their manufacturing vessels with solvents.

A RCRA inspection by the NJDEP on November 8, 1984 revealed poor drum storage practices and inadequate containment for the solvent tank farm. The inspector described the yard as "heavily covered with deposits of unknown chemicals" and ponding rainwater that "appeared to be heavily contaminated with unknown chemicals." On November 15, 1984, a neighboring worker complained of a whitish runoff from Synkote Paint Company which went to a storm drain. The complainant claimed his car tires were damaged from this runoff.

On July 3, 1985, four soil samples were taken by the Division of Water Resources from Synkote Paint Company property. A volatile organics scan by the New Jersey Department of Health revealed contamination with benzene (48 ppm), ethylbenzene (17 ppm), sec-butylbenzene (113 ppm), 1,2,4 trimethylbenzene (718 ppm), p-cymene (380 ppm), toluene (965 ppm), o-xylene (205 ppm), m-xylene (480 ppm), and p-xylene (160 ppm). Although the Division of Water Resources required Synkote Paint Company to install Monitoring Wells, none were ever installed.

The NJDEP issued an Administrative Order and Penalty Settlement Offer on June 6, 1985 for numerous hazardous waste violations. A Directive Letter was issued on September 20, 1985 as a result of a spill of mineral spirits. Some drum removal at the site was begun by S & W Waste of Kearny, but was not completed. A manifest audit of S & W Waste revealed Synkote Paint Company failed to use the proper shipping description on one of the manifests. This violation resulted in a Notice of Civil Administrative Penalty Assessment, issued July 6, 1987.

In February of 1985, all production of Synkote Paint Company was discontinued and the owner, Richard Max, filed for bankruptcy. Approximately 200 drums were abandoned on the property.

Although the Environmental Cleanup and Responsibility Act (ECRA) was triggered by the bankruptcy proceedings, Synkote Paint Company did not acknowledge the responsibility under ECRA and failed to submit the necessary paperwork.

An inspection on November 10, 1988 by the Division of Hazardous Waste Management/Metro Region Enforcement revealed several violations of New Jersey Hazardous Waste Regulations. The resulting Notices of Violation were sent to Richard Max. Mr. Max's lawyer responded that the property had been sold at a sheriff's auction to a Mr. Raymond Topping. The Bureau of ECRA Applicability and Compliance (BEAC) referred the matter to the Attorney General's Office. At the time of this writing, the NJDEP is proposing a publicly funded emergency removal action.

Soil has been impacted at the site and there is a potential for groundwater contamination. Garfield Municipal Wells are located approximately 3/4 mile from the site. Of additional concern is the threat of hazardous materials to nearby residences. Although the site is surrounded by a six foot cyclone fence and barbed wire, the barbed wire in some areas has been bent down, allowing unauthorized entry. There have been instances of trespassing in the past. Persons entering the property and tampering with chemical or waste containers might also create a reactive situation which could affect neighboring houses and businesses. The possibility of arson must be considered.

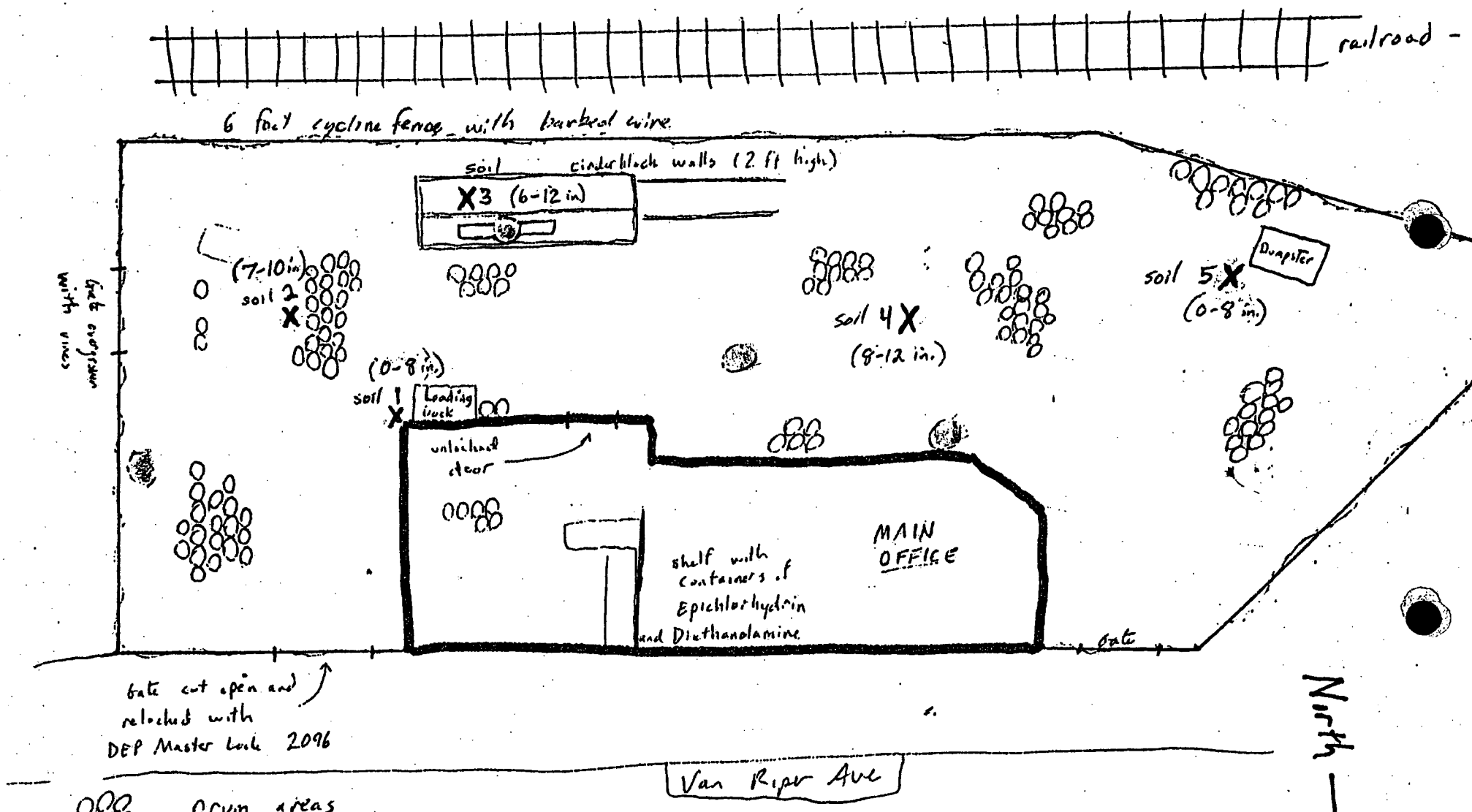
Based on information obtained through file reviews and on-site observations, it was determined further investigation and a site inspection were warranted. Scheduled for sampling during the January 24, 1989 site inspection were five (5) soil samples to be analyzed for the Targeted Compound List. In addition a field blank to be analyzed for the Targeted Compound List and a trip blank to be analyzed for volatile organic chemicals were provided for QA/QC purposes.

Sampling Plan

Synkote Paint Co.

[not to scale]

Elmwood Park, Bergen Co.



Drum areas

* X Sampling Locations based on visual observation (depth) and OVA readings in excess of 1000 ppm.

Approximate Locations of samples taken by DEQE 7/3/85.

David VanFleet

ATTACHMENT A-3

Wayne Harrington Synkote Paint

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

NJD056

Lab Name: Versar, Inc. Contract:

Lab Code: Case No.: SAS No.: SDG No.: NJD-2

Matrix (soil/water): SOIL Lab Sample ID: 66056

Level (low/med): LOW Date Received: 01/25/89

% Solids: 88.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12300			P
7440-36-0	Antimony	3.6	U	N	P
7440-38-2	Arsenic	0.91	U	W	F
7440-39-3	Barium	46.5			P
7440-41-7	Beryllium	0.68	U		P
7440-43-9	Cadmium	0.91	U		P
7440-70-2	Calcium	8040			P
7440-47-3	Chromium	12.6		*	P
7440-48-4	Cobalt	12.0			P
7440-50-8	Copper	82.4			P
7439-89-6	Iron	18600			P
7439-92-1	Lead	33.5			F
7439-95-4	Magnesium	7270			P
7439-96-5	Manganese	133			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	29.3			P
7440-09-7	Potassium	219	U		P
7782-49-2	Selenium	0.68	U		F
7440-22-4	Silver	0.45	U		P
7440-23-5	Sodium	1170			P
7440-28-0	Thallium	0.23	U	NW	F
7440-62-2	Vanadium	33.7			P
7440-66-6	Zinc	156			P
	Cyanide	0.61			AS

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
FIELD NUMBER BSA01249710

ATTACHMENT A-4

Wayne Herring Inc. Synkote Paint

U.S. EPA - CLP

EPA SAMPLE NO.

NJD057

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Versar, Inc. Contract:

Lab Code: Case No.: SAS No.: SDG No.: NJD-2

Matrix (soil/water): SOIL Lab Sample ID: 66057

Level (low/med): LOW Date Received: 01/25/89

% Solids: 83.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9100			P
7440-36-0	Antimony	3.8	U	N	P
7440-38-2	Arsenic	2.0	B		F
7440-39-3	Barium	44.3	B		P
7440-41-7	Beryllium	0.95	B		P
7440-43-9	Cadmium	0.96	U		P
7440-70-2	Calcium	520	B		P
7440-47-3	Chromium	13.9		*	P
7440-48-4	Cobalt	8.8	B		P
7440-50-8	Copper	11.3			P
7439-89-6	Iron	14800			P
7439-92-1	Lead	15.1			F
7439-95-4	Magnesium	1130	B		P
7439-96-5	Manganese	404			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	12.1			P
7440-09-7	Potassium	231	U		P
7782-49-2	Selenium	0.72	U	W	F
7440-22-4	Silver	0.48	U		P
7440-23-5	Sodium	63.0	B		P
7440-28-0	Thallium	0.24	U	NW	F
7440-62-2	Vanadium	28.9			P
7440-66-6	Zinc	30.8			P
	Cyanide	0.45	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
FIELD NUMBER BSA01249711

00003

ATTACHMENT A-5

U.S. EPA - CLP

EPA SAMPLE NO.

NJD058

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Versar, Inc. Contract:

Lab Code: Case No.: SAS No.: SDG No.: NJD-2

Matrix (soil/water): SOIL Lab Sample ID: 66058

Level (low/med): LOW Date Received: 01/25/89

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10100			P
7440-36-0	Antimony	3.9	U	N	P
7440-38-2	Arsenic	1.4	B		F
7440-39-3	Barium	41.3	B		P
7440-41-7	Beryllium	0.73	U		P
7440-43-9	Cadmium	0.98	U		P
7440-70-2	Calcium	502	B		P
7440-47-3	Chromium	14.6		*	P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	7.7			P
7439-89-6	Iron	11600			P
7439-92-1	Lead	4.9		S	F
7439-95-4	Magnesium	1190	B		P
7439-96-5	Manganese	71.7			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	9.3	B		P
7440-09-7	Potassium	236	U		P
7782-49-2	Selenium	0.73	U		F
7440-22-4	Silver	0.49	U		P
7440-23-5	Sodium	50.4	B		P
7440-28-0	Thallium	0.24	U	NW	F
7440-62-2	Vanadium	28.0			P
7440-66-6	Zinc	32.8			P
	Cyanide	0.56	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
FIELD NUMBER BSA01249712

ATTACHMENT A-6
00004

U.S. EPA - CLP

EPA SAMPLE NO.

NJD059

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Versar, Inc. Contract:

Lab Code: Case No.: SAS No.: SDG No.: NJD-2

Matrix (soil/water): SOIL Lab Sample ID: 66059

Level (low/med): LOW Date Received: 01/25/89

% Solids: 72.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7180			P
7440-36-0	Antimony	4.4	U	N	P
7440-38-2	Arsenic	5.5			F
7440-39-3	Barium	1750			P
7440-41-7	Beryllium	0.83	U		P
7440-43-9	Cadmium	13.9			P
7440-70-2	Calcium	2840			P
7440-47-3	Chromium	268		*	P
7440-48-4	Cobalt	20.8			P
7440-50-8	Copper	438			P
7439-89-6	Iron	26500			P
7439-92-1	Lead	1590		S	F
7439-95-4	Magnesium	1310	B		P
7439-96-5	Manganese	160			P
7439-97-6	Mercury	0.44			CV
7440-02-0	Nickel	15.1			P
7440-09-7	Potassium	266	U		P
7782-49-2	Selenium	1.3	B		F
7440-22-4	Silver	0.55	U		P
7440-23-5	Sodium	110	B		P
7440-28-0	Thallium	0.28	U	NW	F
7440-62-2	Vanadium	28.6			P
7440-66-6	Zinc	1970			P
	Cyanide	43.7			AS

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
FIELD NUMBER BSA01249713

ATTACHMENT A-1

00005

U.S. EPA - CLP

EPA SAMPLE NO.

NJD060

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Versar, Inc. Contract:

Lab Code: Case No.: SAS No.: SDG No.: NJD-2

Matrix (soil/water): SOIL Lab Sample ID: 66060

Level (low/med): LOW Date Received: 01/25/89

% Solids: 88.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7400			P
7440-36-0	Antimony	3.6	U	N	P
7440-38-2	Arsenic	7.4			F
7440-39-3	Barium	758			P
7440-41-7	Beryllium	0.68	U		P
7440-43-9	Cadmium	0.90	U		P
7440-70-2	Calcium	20700			P
7440-47-3	Chromium	75.7		*	P
7440-48-4	Cobalt	23.4			P
7440-50-8	Copper	106			P
7439-89-6	Iron	15200			P
7439-92-1	Lead	623			F
7439-95-4	Magnesium	4630			P
7439-96-5	Manganese	532			P
7439-97-6	Mercury	0.36			CV
7440-02-0	Nickel	16.2			P
7440-09-7	Potassium	228	B		P
7782-49-2	Selenium	0.68	U	W	F
7440-22-4	Silver	0.45	U		P
7440-23-5	Sodium	338	B		P
7440-28-0	Thallium	0.23	U	NW	F
7440-62-2	Vanadium	29.6			P
7440-66-6	Zinc	183			P
	Cyanide	105			AS

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
FIELD NUMBER BSA01249714

ATTACHMENT A-8

00006

Versar, Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BSA01249710

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 66066
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 6162 B#2
QC Report No: 6162 B#2
Contract No:
Date Sample Received: 01/25/89

VOLATILE COMPOUNDS

Concentration: MED
Date Extracted/Prepared: 02/06/89
Date Analyzed: 02/06/89
Conc/(Dil) Factor: 200 pH
Percent Moisture: 11.7

CAS Number		ug/Kg
74-87-3	Chloromethane	2300 u
74-83-9	Bromomethane	2300 u
75-01-4	Vinyl Chloride	2300 u
75-00-3	Chloroethane	2300 u
75-09-2	Methylene Chloride	1100 u
67-64-1	Acetone	6600
75-15-0	Carbon Disulfide	1100 u
75-35-4	1,1-Dichloroethene	1100 u
75-34-3	1,1-Dichloroethane	1100 u
156-60-5	Trans-1,2-Dichloroethene	1100 u
67-66-3	Chloroform	1100 u
107-06-2	1,2-Dichloroethane	1100 u
78-93-3	2-butanone	2300 u
71-55-6	1,1,1-Trichloroethane	1100 u
56-23-5	Carbon Tetrachloride	1100 u
108-05-4	Vinyl Acetate	2300 u
75-27-4	Bromodichloromethane	1100 u

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	1100 u
10061-02-6	Trans-1,3-Dichloropropene	1100 u
79-01-6	Trichloroethene	1100 u
124-48-1	Dibromochloromethane	1100 u
79-00-5	1,1,2-Trichloroethane	1100 u
71-43-2	Benzene	1100 u
10061-01-5	cis-1,3-Dichloropropene	1100 u
110-75-8	2-chloroethylvinylether	2300 u
75-25-2	Bromoform	1100 u
108-10-1	4-Methyl-2-Pentanone	2300 u
591-78-6	2-Hexanone	2300 u
127-18-4	Tetrachloroethene	1100 u
79-34-5	1,1,2,2-Tetrachloroethane	1100 u
108-88-3	Toluene	1100 u
108-90-7	Chlorobenzene	1100 u
100-41-4	Ethylbenzene	1100 u
100-42-5	Styrene	1100 u
1330-20-7	Total Xylenes	36000

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

T Spectrum does not meet criteria for confirmation but does indicate compound presence.

NR Not Required.

NA Compound present in both matrix spike standard and unspiked sample.

100032

ATTACHMENT A-9

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BSA01249710

Case No: 6162 B02

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: MID

Date Extracted/Prepared: 2/02/89

Date Analyzed: 02/06/89

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	22000 u
111-44-4	bis(2-Chloroethyl)Ether	22000 u
95-57-8	2-Chlorophenol	22000 u
541-73-1	1,3-Dichlorobenzene	22000 u
106-46-7	1,4-Dichlorobenzene	22000 u
100-51-6	Benzyl Alcohol	22000 u
95-50-1	1,2-Dichlorobenzene	22000 u
95-48-7	2-Methylphenol	22000 u
39638-32-9	bis(2-chloroisopropyl)ether	22000 u
106-44-5	4-methylphenol	22000 u
621-64-7	N-Nitroso-Di-n-propylamine	22000 u
67-72-1	Hexachloroethane	22000 u
98-95-3	Nitrobenzene	22000 u
78-59-1	Isophorone	22000 u
88-75-5	2-Nitrophenol	22000 u
105-67-9	2,4-dimethylphenol	22000 u
65-85-0	Benzoic Acid	114000 u
111-91-1	bis(2-chloroethoxy)methane	22000 u
120-83-2	2,4-dichlorophenol	22000 u
120-82-1	1,2,4-trichlorobenzene	22000 u
91-20-3	Naphthalene	22000 u
106-47-8	4-Chloroaniline	22000 u
87-68-3	Hexachlorobutadiene	22000 u
59-50-7	4-chloro-3-methylphenol	22000 u
91-57-6	2-methylnaphthalene	22000 u
77-47-4	Hexachlorocyclopentadiene	22000 u
88-06-2	2,4,6-Trichlorophenol	22000 u
95-95-4	2,4,5-Trichlorophenol	114000 u
91-58-7	2-Chloronaphthalene	22000 u
88-74-4	2-Nitroaniline	114000 u
131-11-3	Dimethyl Phthalate	22000 u
208-96-8	Acenaphthylene	22000 u
99-09-2	3-Nitroaniline	114000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	22000 u
51-28-5	2,4-Dinitrophenol	114000 u
100-02-7	4-Nitrophenol	114000 u
132-64-9	Dibenzofuran	22000 u
121-14-2	2,4-Dinitrotoluene	22000 u
606-20-2	2,6-Dinitrotoluene	22000 u
84-66-2	Diethylphthalate	22000 u
7005-22-3	4-Chlorophenyl-phenylether	22000 u
86-73-7	Fluorene	22000 u
100-01-6	4-Nitroaniline	114000 u
534-52-1	4,6-dinitro-2-methylphenol	114000 u
86-30-6	N-Nitrosodiphenylamine (1)	22000 u
101-55-3	4-Bromophenyl-phenylether	22000 u
118-74-1	Hexachlorobenzene	22000 u
87-86-5	Pentachlorophenol	114000 u
85-01-8	Phenanthrene	22000 u
120-12-7	Anthracene	22000 u
84-74-2	Di-n-butylphthalate	22000 u
206-44-0	Fluoranthene	22000 u
129-00-0	Pyrene	22000 u
85-68-7	Butylbenzylphthalate	22000 u
91-94-1	3,3'-Dichlorobenzidine	45000 u
56-55-3	Benzo(a)anthracene	22000 u
117-81-7	bis(2-Ethylhexyl)Phthalate	22000 u
218-01-9	Chrysene	22000 u
117-84-0	Di-n-Octylphthalate	22000 u
205-99-2	Benzo(b)Fluoranthene	22000 u
207-08-9	Benzo(k)Fluoranthene	22000 u
50-32-8	Benzo(a)pyrene	22000 u
193-39-5	Indeno(1,2,3-cd)Pyrene	22000 u
53-70-3	Dibenz(a,h)Anthracene	22000 u
191-24-2	Benzo(g,h,i)Perylene	22000 u

(1)-Cannot be separated from diphenylamine

[2q[2q

1A

EPA SAMPLE N

VOLATILE ORGANICS ANALYSIS DATA SHEET

BSA01249711

Lab Name: VERSAR INC. Contract:

Lab Code: VERSAR Case No.: 6162 SAS No.: SDG No.: 2

Matrix: (soil/water) SOIL Lab Sample ID: 66067

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Y4555

Level: (low/med) LOW Date Received: 01/25/89

% Moisture: not dec. 16 Date Analyzed: 02/06/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3,-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	25	X

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BSA01249711

Case No: 6162 B#2

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: MID

Date Extracted/Prepared: 2/02/89

Date Analyzed: 02/06/89

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	24000 u
111-44-4	bis(2-Chloroethyl)Ether	24000 u
95-57-8	2-Chlorophenol	24000 u
541-73-1	1,3-Dichlorobenzene	24000 u
106-46-7	1,4-Dichlorobenzene	24000 u
100-51-6	Benzyl Alcohol	24000 u
95-50-1	1,2-Dichlorobenzene	24000 u
95-48-7	2-Methylphenol	24000 u
39638-32-9	bis(2-chloroisopropyl)ether	24000 u
106-44-5	4-methylphenol	24000 u
621-64-7	N-Nitroso-Di-n-propylamine	24000 u
67-72-1	Hexachloroethane	24000 u
98-95-3	Nitrobenzene	24000 u
78-59-1	Isophorone	24000 u
88-75-5	2-Nitrophenol	24000 u
105-67-9	2,4-dimethylphenol	24000 u
65-85-0	Benzoic Acid	118000 u
111-91-1	bis(2-chloroethoxy)methane	24000 u
120-83-2	2,4-dichlorophenol	24000 u
120-82-1	1,2,4-trichlorobenzene	24000 u
91-20-3	Naphthalene	24000 u
106-47-8	4-Chloroaniline	24000 u
87-68-3	Hexachlorobutadiene	24000 u
59-50-7	4-chloro-3-methylphenol	24000 u
91-57-6	2-methylnaphthalene	24000 u
77-47-4	Hexachlorocyclopentadiene	24000 u
88-06-2	2,4,6-Trichlorophenol	24000 u
95-95-4	2,4,5-Trichlorophenol	118000 u
91-58-7	2-Chloronaphthalene	24000 u
88-74-4	2-Nitroaniline	118000 u
131-11-3	Dimethyl Phthalate	24000 u
208-96-8	Acenaphthylene	24000 u
99-09-2	3-Nitroaniline	118000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	24000 u
51-28-5	2,4-Dinitrophenol	118000 u
100-02-7	4-Nitrophenol	118000 u
132-64-9	Dibenzofuran	24000 u
121-14-2	2,4-Dinitrotoluene	24000 u
606-20-2	2,6-Dinitrotoluene	24000 u
84-66-2	Diethylphthalate	24000 u
7005-22-3	4-Chlorophenyl-phenylether	24000 u
86-73-7	Fluorene	24000 u
100-01-6	4-Nitroaniline	118000 u
534-52-1	4,6-dinitro-2-methylphenol	118000 u
86-30-6	N-Nitrosodiphenylamine (1)	24000 u
101-55-3	4-Bromophenyl-phenylether	24000 u
118-74-1	Hexachlorobenzene	24000 u
87-86-5	Pentachlorophenol	118000 u
85-01-8	Phenanthrene	24000 u
120-12-7	Anthracene	24000 u
84-74-2	Di-n-butylphthalate	24000 u
206-44-0	Fluoranthene	24000 u
129-00-0	Pyrene	24000 u
85-68-7	Butylbenzylphthalate	24000 u
91-94-1	3,3'-Dichlorobenzidine	48000 u
56-55-3	Benzo(a)anthracene	24000 u
117-81-7	bis(2-Ethylhexyl)Phthalate	24000 u
218-01-9	Chrysene	24000 u
117-84-0	Di-n-Octylphthalate	24000 u
205-99-2	Benzo(b)Fluoranthene	24000 u
207-08-9	Benzo(k)Fluoranthene	24000 u
50-32-8	Benzo(a)pyrene	24000 u
193-39-5	Indeno(1,2,3-cd)Pyrene	24000 u
53-70-3	Dibenz(a,h)Anthracene	24000 u
191-24-2	Benzo(g,h,i)Perylene	24000 u

100062

(1)-Cannot be separated from diphenylamine

ATTACHMENT A-12

Versar, Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BSA01249712

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 66068
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 6162 B#2
QC Report No: 6162 B#2
Contract No:
Date Sample Received: 01/25/89

VOLATILE COMPOUNDS

Concentration: MED
Date Extracted/Prepared: 02/07/89
Date Analyzed: 02/07/89
Conc/Dil Factor: 50000 pH
Percent Moisture: 18.3

CAS Number		ug/Kg
74-87-3	Chloromethane	612000 u
74-83-9	Bromomethane	612000 u
75-01-4	Vinyl Chloride	612000 u
75-00-3	Chloroethane	612000 u
75-09-2	Methylene Chloride	306000 u
67-64-1	Acetone	612000 u
75-15-0	Carbon Disulfide	306000 u
75-35-4	1,1-Dichloroethene	306000 u
75-34-3	1,1-Dichloroethane	306000 u
156-60-5	Trans-1,2-Dichloroethene	306000 u
67-66-3	Chloroform	306000 u
107-06-2	1,2-Dichloroethane	306000 u
78-93-3	2-butanone	612000 u
71-55-6	1,1,1-Trichloroethane	306000 u
56-23-5	Carbon Tetrachloride	306000 u
108-05-4	Vinyl Acetate	612000 u
75-27-4	Bromodichloromethane	306000 u

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	306000 u
10061-02-6	Trans-1,3-Dichloropropene	306000 u
79-01-6	Trichloroethene	306000 u
124-48-1	Dibromochloromethane	306000 u
79-00-5	1,1,2-Trichloroethane	306000 u
71-43-2	Benzene	306000 u
10061-01-5	cis-1,3-Dichloropropene	306000 u
110-75-8	2-chloroethylvinylether	612000 u
75-25-2	Bromoform	306000 u
108-10-1	4-Methyl-2-Pentanone	612000 u
591-78-6	2-Hexanone	612000 u
127-18-4	Tetrachloroethene	306000 u
79-34-5	1,1,2,2-Tetrachloroethane	306000 u
108-88-3	Toluene	306000 u
108-90-7	Chlorobenzene	306000 u
100-41-4	Ethylbenzene	276000
100-42-5	Styrene	306000 u
1330-20-7	Total Xylenes	5716000

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

T Spectrum does not meet criteria for confirmation but does indicate compound presence.

NR Not Required.

NA Compound present in both matrix spike standard and unspiked sample.

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BSA01249712

Case No: 6162 B#2

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: MID

Date Extracted/Prepared: 2/02/89

Date Analyzed: 02/06/89

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	24000 u
111-44-4	bis(2-Chloroethyl)Ether	24000 u
95-57-8	2-Chlorophenol	24000 u
541-73-1	1,3-Dichlorobenzene	24000 u
106-46-7	1,4-Dichlorobenzene	24000 u
100-51-6	Benzyl Alcohol	24000 u
95-50-1	1,2-Dichlorobenzene	24000 u
95-48-7	2-Methylphenol	24000 u
39638-32-9	bis(2-chloroisopropyl)ether	24000 u
106-44-5	4-methylphenol	24000 u
621-64-7	N-Nitroso-Di-n-propylamine	24000 u
67-72-1	Hexachloroethane	24000 u
98-95-3	Nitrobenzene	24000 u
78-59-1	Isophorone	24000 u
88-75-5	2-Nitrophenol	24000 u
105-67-9	2,4-dimethylphenol	24000 u
65-85-0	Benzoic Acid	122000 u
111-91-1	bis(2-chloroethoxy)methane	24000 u
120-83-2	2,4-dichlorophenol	24000 u
120-82-1	1,2,4-trichlorobenzene	24000 u
91-20-3	Naphthalene	24000 u
106-47-8	4-Chloroaniline	24000 u
87-68-3	Hexachlorobutadiene	24000 u
59-50-7	4-chloro-3-methylphenol	24000 u
91-57-6	2-methylnaphthalene	24000 u
77-47-4	Hexachlorocyclopentadiene	24000 u
88-06-2	2,4,6-Trichlorophenol	24000 u
95-95-4	2,4,5-Trichlorophenol	122000 u
91-58-7	2-Chloronaphthalene	24000 u
88-74-4	2-Nitroaniline	122000 u
131-11-3	Dimethyl Phthalate	24000 u
208-96-8	Acenaphthylene	24000 u
99-09-2	3-Nitroaniline	122000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	24000 u
51-28-5	2,4-Dinitrophenol	122000 u
100-02-7	4-Nitrophenol	122000 u
132-64-9	Dibenzofuran	24000 u
121-14-2	2,4-Dinitrotoluene	24000 u
606-20-2	2,6-Dinitrotoluene	24000 u
84-66-2	Diethylphthalate	24000 u
7005-22-3	4-Chlorophenyl-phenylether	24000 u
86-73-7	Fluorene	24000 u
100-01-6	4-Nitroaniline	122000 u
534-52-1	4,6-dinitro-2-methylphenol	122000 u
86-30-6	N-Nitrosodiphenylamine (1)	24000 u
101-55-3	4-Bromophenyl-phenylether	24000 u
118-74-1	Hexachlorobenzene	24000 u
87-86-5	Pentachlorophenol	122000 u
85-01-8	Phenanthrene	24000 u
120-12-7	Anthracene	24000 u
84-74-2	Di-n-butylphthalate	24000 u
206-44-0	Fluoranthene	24000 u
129-00-0	Pyrene	24000 u
85-68-7	Butylbenzylphthalate	24000 u
91-94-1	3,3'-Dichlorobenzidine	48000 u
56-55-3	Benzo(a)anthracene	24000 u
117-81-7	bis(2-Ethylhexyl)Phthalate	24000 u
218-01-9	Chrysene	24000 u
117-84-0	Di-n-Octylphthalate	24000 u
205-99-2	Benzo(b)Fluoranthene	24000 u
207-08-9	Benzo(k)Fluoranthene	24000 u
50-32-8	Benzo(a)pyrene	24000 u
193-39-5	Indeno(1,2,3-cd)Pyrene	24000 u
53-70-3	Dibenz(a,h)Anthracene	24000 u
191-24-2	Benzo(g,h,i)Perylene	24000 u

(1)-Cannot be separated from diphenylamine

100094

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

SAMPLE ID
BSA01249712

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan	Estimated Concentration (ug/Kg or ug/l)
1		UNKNOWN DIMETHYL BENZENE	BNA	256	350,000 J
2		UNKNOWN ETHYL METHYL BENZENE	BNA	330	18,000 J
3		UNKNOWN TRIMETHYL BENZENE	BNA	367	13,000 J
4	15869-93-9	OCTANE, 3,5-DIMETHYL-	BNA	371	18,000 J
5		UNKNOWN HYDROCARBON	BNA	486	17,000 J
6					
7					
8					
9					
10					
11					
12					
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30					

100096

ATTACHMENT A-15

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BSA01249713

Case No: 6162 B#2

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: MID

Date Extracted/Prepared: 2/02/89

Date Analyzed: 02/06/89

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	28000 u
111-44-4	bis(2-Chloroethyl)Ether	28000 u
95-57-8	2-Chlorophenol	28000 u
541-73-1	1,3-Dichlorobenzene	28000 u
106-46-7	1,4-Dichlorobenzene	28000 u
100-51-6	Benzyl Alcohol	28000 u
95-50-1	1,2-Dichlorobenzene	28000 u
95-48-7	2-Methylphenol	28000 u
39638-32-9	bis(2-chloroisopropyl)ether	28000 u
106-44-5	4-methylphenol	28000 u
621-64-7	N-Nitroso-Di-n-propylamine	28000 u
67-72-1	Hexachloroethane	28000 u
98-95-3	Nitrobenzene	28000 u
78-59-1	Isophorone	28000 u
88-75-5	2-Nitrophenol	28000 u
105-67-9	2,4-dimethylphenol	28000 u
65-85-0	Benzoic Acid	140000 u
111-91-1	bis(2-chloroethoxy)methane	28000 u
120-83-2	2,4-dichlorophenol	28000 u
120-82-1	1,2,4-trichlorobenzene	28000 u
91-20-3	Naphthalene	19000 J
106-47-8	4-Chloroaniline	28000 u
87-68-3	Hexachlorobutadiene	28000 u
59-50-7	4-chloro-3-methylphenol	28000 u
91-57-6	2-methylnaphthalene	28000 u
77-47-4	Hexachlorocyclopentadiene	28000 u
88-06-2	2,4,6-Trichlorophenol	28000 u
95-95-4	2,4,5-Trichlorophenol	140000 u
91-58-7	2-Chloronaphthalene	28000 u
88-74-4	2-Nitroaniline	140000 u
131-11-3	Dimethyl Phthalate	28000 u
208-96-8	Acenaphthylene	28000 u
99-09-2	3-Nitroaniline	140000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	28000 u
51-28-5	2,4-Dinitrophenol	140000 u
100-02-7	4-Nitrophenol	140000 u
132-64-9	Dibenzofuran	28000 u
121-14-2	2,4-Dinitrotoluene	28000 u
606-20-2	2,6-Dinitrotoluene	28000 u
84-66-2	Diethylphthalate	28000 u
7005-22-3	4-Chlorophenyl-phenylether	28000 u
86-73-7	Fluorene	28000 u
100-01-6	4-Nitroaniline	140000 u
534-52-1	4,6-dinitro-2-methylphenol	140000 u
86-30-6	N-Nitrosodiphenylamine (1)	28000 u
101-55-3	4-Bromophenyl-phenylether	28000 u
118-74-1	Hexachlorobenzene	28000 u
87-86-5	Pentachlorophenol	140000 u
85-01-8	Phenanthrene	28000 u
120-12-7	Anthracene	28000 u
84-74-2	Di-n-butylphthalate	58000
206-44-0	Fluoranthene	28000 u
129-00-0	Pyrene	28000 u
85-68-7	Butylbenzylphthalate	28000 u
91-94-1	3,3'-Dichlorobenzidine	56000 u
56-55-3	Benzo(a)anthracene	28000 u
117-81-7	bis(2-Ethylhexyl)Phthalate	E
218-01-9	Chrysene	28000 u
117-84-0	Di-n-Octylphthalate	18000 J
205-99-2	Benzo(b)Fluoranthene	28000 u
207-08-9	Benzo(k)Fluoranthene	28000 u
50-32-8	Benzo(a)pyrene	28000 u
193-39-5	Indeno(1,2,3-cd)Pyrene	28000 u
53-70-3	Dibenz(a,h)Anthracene	28000 u
191-24-2	Benzo(g,h,i)Perylene	28000 u

100131

(1)-Cannot be separated from diphenylamine

ATTACHMENT A-16

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BSA012497130L

Case No: 6162 B#2

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: MID

Date Extracted/Prepared: 2/02/89

Date Analyzed: 02/06/89

Conc/Dil Factor: 10

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	278000 u
111-44-4	bis(2-Chloroethyl)Ether	278000 u
95-57-8	2-Chlorophenol	278000 u
541-73-1	1,3-Dichlorobenzene	278000 u
106-46-7	1,4-Dichlorobenzene	278000 u
100-51-6	Benzyl Alcohol	278000 u
95-50-1	1,2-Dichlorobenzene	278000 u
95-48-7	2-Methylphenol	278000 u
39638-32-9	bis(2-chloroisopropyl)ether	278000 u
106-44-5	4-methylphenol	278000 u
621-64-7	N-Nitroso-Di-n-propylamine	278000 u
67-72-1	Hexachloroethane	278000 u
98-95-3	Nitrobenzene	278000 u
78-59-1	Isophorone	278000 u
88-75-5	2-Nitrophenol	278000 u
105-67-9	2,4-dimethylphenol	278000 u
65-85-0	Benzoic Acid	1394000 u
111-91-1	bis(2-chloroethoxy)methane	278000 u
120-83-2	2,4-dichlorophenol	278000 u
120-82-1	1,2,4-trichlorobenzene	278000 u
91-20-3	Naphthalene	278000 u
106-47-8	4-Chloroaniline	278000 u
87-68-3	Hexachlorobutadiene	278000 u
59-50-7	4-chloro-3-methylphenol	278000 u
91-57-6	2-methylnaphthalene	278000 u
77-47-4	Hexachlorocyclopentadiene	278000 u
88-06-2	2,4,6-Trichlorophenol	278000 u
95-95-4	2,4,5-Trichlorophenol	1394000 u
91-58-7	2-Chloronaphthalene	278000 u
88-74-4	2-Nitroaniline	1394000 u
131-11-3	Dimethyl Phthalate	278000 u
208-96-8	Acenaphthylene	278000 u
99-09-2	3-Nitroaniline	1394000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	278000 u
51-28-5	2,4-Dinitrophenol	1394000 u
100-02-7	4-Nitrophenol	1394000 u
132-64-9	Dibenzofuran	278000 u
121-14-2	2,4-Dinitrotoluene	278000 u
606-20-2	2,6-Dinitrotoluene	278000 u
84-66-2	Diethylphthalate	278000 u
7005-22-3	4-Chlorophenyl-phenylether	278000 u
86-73-7	Fluorene	278000 u
100-01-6	4-Nitroaniline	1394000 u
534-52-1	4,6-dinitro-2-methylphenol	1394000 u
86-30-6	N-Nitrosodiphenylamine (1)	278000 u
101-55-3	4-Bromophenyl-phenylether	278000 u
118-74-1	Hexachlorobenzene	278000 u
87-86-5	Pentachlorophenol	1394000 u
85-01-8	Phenanthrene	278000 u
120-12-7	Anthracene	278000 u
84-74-2	Di-n-butylphthalate	278000 u
206-44-0	Fluoranthene	278000 u
129-00-0	Pyrene	278000 u
85-68-7	Butylbenzylphthalate	278000 u
91-94-1	3,3'-Dichlorobenzidine	558000 u
56-55-3	Benzo(a)anthracene	278000 u
117-81-7	bis(2-Ethylhexyl)Phthalate	1800000 D
218-01-9	Chrysene	278000 u
117-84-0	Di-n-Octylphthalate	278000 u
205-99-2	Benzo(b)Fluoranthene	278000 u
207-08-9	Benzo(k)Fluoranthene	278000 u
50-32-8	Benzo(a)pyrene	278000 u
193-39-5	Indeno(1,2,3-cd)Pyrene	278000 u
53-70-3	Dibenz(a,h)Anthracene	278000 u
191-24-2	Benzo(g,h,i)Perylene	278000 u

100132

(1)-Cannot be separated from diphenylamine

ATTACHMENT A-17

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSA01249713

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 6162 SAS No.: _____ SDG No.: 2

Matrix: (soil/water) SOIL Lab Sample ID: 66069

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Y4575

Level: (low/med) MED Date Received: 01/25/89

% Moisture: not dec. 27 Date Analyzed: 02/07/89

Column (pack/cap) PACK Dilution Factor: 1000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

100133

ATTACHMENT A-18

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

SAMPLE ID
BSA01249713

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan	Estimated Concentration (ug/Kg or ug/l)
1		UNKNOWN DIMETHYL BENZENE	BNA	256	440,000 J
2		UNKNOWN HYDROCARBON	BNA	268	75,000 J
3		UNKNOWN HYDROCARBON	BNA	297	42,000 J
4		UNKNOWN	BNA	321	46,000 J
5		UNKNOWN ETHYL METHYL BENZENE	BNA	330	130,000 J
6		UNKNOWN KETONE	BNA	338	300,000 J
7		UNKNOWN TRIMETHYL BENZENE	BNA	367	160,000 J
8		UNKNOWN HYDROCARBON	BNA	372	350,000 J
9		UNKNOWN HYDROCARBON	BNA	398	130,000 J
10		UNKNOWN CYCLOHEXANE	BNA	410	66,000 J
11		UNKNOWN	BNA	416	47,000 J
12		UNKNOWN METHYL PROPYL BENZENE	BNA	433	41,000 J
13		UNKNOWN	BNA	438	81,000 J
14		UNKNOWN	BNA	441	84,000 J
15		UNKNOWN HYDROCARBON	BNA	445	84,000 J
16		UNKNOWN HYDROCARBON	BNA	452	77,000 J
17		UNKNOWN ETHYL DIMETHYL BENZENE	BNA	463	44,000 J
18		UNKNOWN HYDROCARBON	BNA	487	380,000 J
19		UNKNOWN HYDROCARBON	BNA	506	35,000 J
20		UNKNOWN TETRAMETHYL BENZENE	BNA	513	39,000 J
21		UNKNOWN	BNA	549	48,000 J
22		UNKNOWN HYDROCARBON	BNA	559	33,000 J
23		UNKNOWN HYDROCARBON	BNA	599	120,000 J
24		UNKNOWN HYDROCARBON	BNA	707	45,000 J
25		UNKNOWN	BNA	969	83,000 J
26		UNKNOWN	BNA	1141	57,000 J
27		UNKNOWN	BNA	1302	120,000 J
28		UNKNOWN	BNA	1434	140,000 J
29		UNKNOWN	BNA	1448	39,000 J
30		UNKNOWN	BNA	1660	70,000 J

100134
ATTACHMENT A-14

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA01249714

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 6162 SAS No.: _____ SDG No.: 2

Matrix: (soil/water) SOIL Lab Sample ID: 66070

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Y4558

Level: (low/med) LOW Date Received: 01/25/89

% Moisture: not dec. 11 Date Analyzed: 02/06/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3,-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	4	J
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	31	X

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BSA01249714

Case No: 6162 B#2

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: MID

Date Extracted/Prepared: 2/02/89

Date Analyzed: 02/06/89

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	22000 u
111-44-4	bis(2-Chloroethyl)Ether	22000 u
95-57-8	2-Chlorophenol	22000 u
541-73-1	1,3-Dichlorobenzene	22000 u
106-46-7	1,4-Dichlorobenzene	22000 u
100-51-6	Benzyl Alcohol	22000 u
95-50-1	1,2-Dichlorobenzene	22000 u
95-48-7	2-Methylphenol	22000 u
39638-32-9	bis(2-chloroisopropyl)ether	22000 u
106-44-5	4-methylphenol	22000 u
621-64-7	N-Nitroso-Di-n-propylamine	22000 u
67-72-1	Hexachloroethane	22000 u
98-95-3	Nitrobenzene	22000 u
78-59-1	Isophorone	22000 u
88-75-5	2-Nitrophenol	22000 u
105-67-9	2,4-dimethylphenol	22000 u
65-85-0	Benzoic Acid	114000 u
111-91-1	bis(2-chloroethoxy)methane	22000 u
120-83-2	2,4-dichlorophenol	22000 u
120-82-1	1,2,4-trichlorobenzene	22000 u
91-20-3	Naphthalene	22000 u
106-47-8	4-Chloroaniline	22000 u
87-68-3	Hexachlorobutadiene	22000 u
59-50-7	4-chloro-3-methylphenol	22000 u
91-57-6	2-methylnaphthalene	22000 u
77-47-4	Hexachlorocyclopentadiene	22000 u
88-06-2	2,4,6-Trichlorophenol	22000 u
95-95-4	2,4,5-Trichlorophenol	114000 u
91-58-7	2-Chloronaphthalene	22000 u
88-74-4	2-Nitroaniline	114000 u
131-11-3	Dimethyl Phthalate	22000 u
208-96-8	Acenaphthylene	22000 u
99-09-2	3-Nitroaniline	114000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	22000 u
51-28-5	2,4-Dinitrophenol	114000 u
100-02-7	4-Nitrophenol	114000 u
132-64-9	Dibenzofuran	22000 u
121-14-2	2,4-Dinitrotoluene	22000 u
606-20-2	2,6-Dinitrotoluene	22000 u
84-66-2	Diethylphthalate	22000 u
7005-22-3	4-Chlorophenyl-phenylether	22000 u
86-73-7	Fluorene	22000 u
100-01-6	4-Nitroaniline	114000 u
534-52-1	4,6-dinitro-2-methylphenol	114000 u
86-30-6	N-Nitrosodiphenylamine (1)	22000 u
101-55-3	4-Bromophenyl-phenylether	22000 u
118-74-1	Hexachlorobenzene	22000 u
87-86-5	Pentachlorophenol	114000 u
85-01-8	Phenanthrene	22000 u
120-12-7	Anthracene	22000 u
84-74-2	Di-n-butylphthalate	22000 u
206-44-0	Fluoranthene	22000 u
129-00-0	Pyrene	22000 u
85-68-7	Butylbenzylphthalate	22000 u
91-94-1	3,3'-Dichlorobenzidine	46000 u
56-55-3	Benzo(a)anthracene	22000 u
117-81-7	bis(2-Ethylhexyl)Phthalate	57000
218-01-9	Chrysene	22000 u
117-84-0	Di-n-Octylphthalate	22000 u
205-99-2	Benzo(b)Fluoranthene	22000 u
207-08-9	Benzo(k)Fluoranthene	22000 u
50-32-8	Benzo(a)pyrene	22000 u
193-39-5	Indeno(1,2,3-cd)Pyrene	22000 u
53-70-3	Dibenz(a,h)Anthracene	22000 u
191-24-2	Benzo(g,h,i)Perylene	22000 u

(1)-Cannot be separated from diphenylamine

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
BSA01249714

Lab Name: VERSAR Contract: _____

Lab Code: VERSAR Case No.: 6162 SAS No.: _____ SDG No.: B#2

Matrix: (soil/water) SOIL Lab Sample ID: 66070

Sample wt/vol: 5 (g/ml) G Lab File ID: Y4558

Level: (low/med) LOW Date Received: 01/25/89

% Moisture: not dec. 11 Date Analyzed: 02/06/89

Dilution Factor: 1

Number TICs found: 2 CONCENTRATION UNITS: (UG/L or UG/KG) UG/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SUBSTITUTED BENZENE	23.1	5	J
2.		UNKNOWN SUBSTITUTED BENZENE	25.07	14	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
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30.					

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

SAMPLE ID
BSA01249714

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan	Estimated Concentration (ug/Kg or ug/l)
1		UNKNOWN	BNA	1776	48,000 J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
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29					
30					

100242

ATTACHMENT A-23

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA01249710

Lab Name: VERSAR, INC. Contract:

Code: VERSAR Case No.: 6162 B#2 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 66061

Sample wt/vol: 1.04 (g/ml) G Lab File ID:

Level: (low/med) MED Date Received: 01/25/89

% Moisture: not dec. 12 dec. Date Extracted: 02/03/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/16/89

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
58-89-9	gamma-BHC (Lindane)	110	U
76-44-8	Heptachlor	110	U
309-00-2	Aldrin	110	U
1024-57-3	Heptachlor Epoxide	110	U
959-98-8	Endosulfan I	110	U
60-57-1	Dieldrin	220	U
72-55-9	4,4'-DDE	220	U
72-20-8	Endrin	220	U
33213-65-9	Endosulfan II	220	U
72-54-8	4,4'-DDD	220	U
1031-07-8	Endosulfan Sulfate	220	U
50-29-3	4,4'-DDT	220	U
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin Ketone	220	U
5103-71-9	alpha-Chlordane	220	U
5103-74-2	gamma-Chlordane	220	U
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	1100	U
11104-28-2	Aroclor-1221	1100	U
11141-16-5	Aroclor-1232	1100	U
53469-21-9	Aroclor-1242	1100	U
12672-29-6	Aroclor-1248	1100	U
11097-69-1	Aroclor-1254	2200	U
11096-82-5	Aroclor-1260	2200	U

200055

ATTACHMENT A-24

Judy Amador 2-22-89

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA01249711

Lab Name: VERSAR, INC. Contract:

Lab Code: VERSAR Case No.: 6162 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 66062

Sample wt/vol: 30.06 (g/ml) G Lab File ID:

Level: (low/med) LOW Date Received: 01/25/89

% Moisture: not dec. 17 dec. Date Extracted: 02/03/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/15/89

GPC Cleanup: (Y/N) N pH: 8 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.0	U
319-85-7	beta-BHC	8.0	U
319-86-8	delta-BHC	8.0	U
58-89-9	gamma-BHC (Lindane)	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor Epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan Sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	16	U
53494-70-5	Endrin Ketone	16	U
5103-71-9	alpha-Chlordane	16	U
5103-74-2	gamma-Chlordane	16	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	85 ~~170~~	S
11096-82-5	Aroclor-1260	160	U

S = STRAIGHT (UNDILUTED) SAMPLE ANALYSIS MORE REPRESENTATIVE OF CALIBRATION. 3/3/89

200011

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3/2/89

ATTACHMENT A-25

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA01249712

Lab Name: VERSAR, INC. Contract:

Lab Code: VERSAR Case No.: 6162 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 66063

Sample wt/vol: 30.03 (g/ml) G Lab File ID:

Level: (low/med) LOW Date Received: 01/25/89

% Moisture: not dec. 18 dec. Date Extracted: 02/03/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/15/89

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.1	U
319-85-7	beta-BHC	8.1	U
319-86-8	delta-BHC	8.1	U
58-89-9	gamma-BHC (Lindane)	8.1	U
76-44-8	Heptachlor	8.1	U
309-00-2	Aldrin	8.1	U
1024-57-3	Heptachlor Epoxide	8.1	U
959-98-8	Endosulfan I	8.1	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan Sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	16	U
53494-70-5	Endrin Ketone	16	U
5103-71-9	alpha-Chlordane	16	U
5103-74-2	gamma-Chlordane	16	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	81	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	81	U
53469-21-9	Aroclor-1242	81	U
12672-29-6	Aroclor-1248	81	U
11097-69-1	Aroclor-1254	91 ~~200~~	S
11096-82-5	Aroclor-1260	160	U

S = STRAIGHT (UNDILUTED) SAMPLE ANALYSIS MORE REPRESENTATIVE OF CALIBRATION 3/3/89

FORM I PEST

200025

1/87 Rev.

ATTACHMENT A-26

3/2/89

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA01249713

Lab Name: VERSAR, INC. Contract:

Code: VERSAR Case No.: 6162 B#2 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 66064

Sample wt/vol: 1.02 (g/ml) G Lab File ID:

Level: (low/med) MED Date Received: 01/25/89

% Moisture: not dec. 28 dec. Date Extracted: 02/03/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/16/89

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1400	U
319-85-7	beta-BHC	1400	U
319-86-8	delta-BHC	1400	U
58-89-9	gamma-BHC (Lindane)	1400	U
76-44-8	Heptachlor	1400	U
309-00-2	Aldrin	1400	U
1024-57-3	Heptachlor Epoxide	1400	U
959-98-8	Endosulfan I	1400	U
60-57-1	Dieldrin	2700	U
72-55-9	4,4'-DDE	2700	U
72-20-8	Endrin	2700	U
33213-65-9	Endosulfan II	2700	U
72-54-8	4,4'-DDD	2700	U
1031-07-8	Endosulfan Sulfate	2700	U
50-29-3	4,4'-DDT	2700	U
72-43-5	Methoxychlor	2700	U
53494-70-5	Endrin Ketone	2700	U
5103-71-9	alpha-Chlordane	2700	U
5103-74-2	gamma-Chlordane	2700	U
8001-35-2	Toxaphene	27000	U
12674-11-2	Aroclor-1016	14000	U
11104-28-2	Aroclor-1221	14000	U
11141-16-5	Aroclor-1232	14000	U
53469-21-9	Aroclor-1242	14000	U
12672-29-6	Aroclor-1248	14000	U
11097-69-1	Aroclor-1254	290000	
11096-82-5	Aroclor-1260	27000	U

200068

ATTACHMENT A-27

Judy Amado 2-22-89

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA01249714

Lab Name: VERSAR, INC. Contract:

Lab Code: VERSAR Case No.: 6162 B#2 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 66065

Sample wt/vol: 30.03 (g/ml) G Lab File ID:

Level: (low/med) LOW Date Received: 01/25/89

% Moisture: not dec. 12 dec. Date Extracted: 02/03/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/10/89

GPC Cleanup: (Y/N) N pH: 8 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	7.5	U
319-85-7	beta-BHC	7.5	U
319-86-8	delta-BHC	7.5	U
58-89-9	gamma-BHC (Lindane)	7.5	U
76-44-8	Heptachlor	7.5	U
309-00-2	Aldrin	7.5	U
1024-57-3	Heptachlor Epoxide	7.5	U
959-98-8	Endosulfan I	7.5	U
60-57-1	Dieldrin	15	U
72-55-9	4,4'-DDE	15	U
72-20-8	Endrin	15	U
33213-65-9	Endosulfan II	15	U
72-54-8	4,4'-DDD	15	U
1031-07-8	Endosulfan Sulfate	15	U
50-29-3	4,4'-DDT	15	U
72-43-5	Methoxychlor	15	U
53494-70-5	Endrin Ketone	15	U
5103-71-9	alpha-Chlordane	15	U
5103-74-2	gamma-Chlordane	15	U
8001-35-2	Toxaphene	150	U
12674-11-2	Aroclor-1016	75	U
11104-28-2	Aroclor-1221	75	U
11141-16-5	Aroclor-1232	75	U
53469-21-9	Aroclor-1242	75	U
12672-29-6	Aroclor-1248	75	U
11097-69-1	Aroclor-1254	530	~~B~~
11096-82-5	Aroclor-1260	150	U

~~S = SAMPLE~~ No qualifier required. 3/3/89

200038A

FORM I PEST 1/87 Rev.

ATTACHMENT A-28 3/3/89

Let's protect our earth

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director
Hazardous Waste Operations

John J. Trela, Ph.D., Director
401 East State St.
CN 028
Trenton, N.J. 08625-0028
(609)633-1408

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

M E M O R A N D U M

JAN 20 1989

TO: Richard Gervasio, Supervisory Environmental Technician
Bureau of Planning and Assessment

FROM: David Van Eck, HSMS III
Bureau of Planning and Assessment

SUBJECT: SAMPLING PLAN FOR SYNKOTE PAINT COMPANY
144-160 VAN RIPER AVENUE
ELMWOOD PARK, BERGEN COUNTY

PROPOSED DATE OF SAMPLING: January 24, 1989

PURPOSE:
To characterize contaminants present at the site and to determine the hazards these substances may pose to the environment and public health.

COMMENTS:
Synkote Paint Company is located in a mixed industrial/residential area in Elmwood Park, Bergen County, manufacturing paint from 1956 until bankruptcy in February 1985. The NJDEP issued Synkote Paint Company an Administrative Order on June 6, 1985 for poor hazardous waste storage practices. Four soil samples, taken by the Division of Water Resources on July 3, 1985, were scanned for volatile organic compounds by the New Jersey Department of Health. Results revealed contamination with cumene, benzene, styrene, toluene, xylene and other solvents. The NJDEP issued a Directive Letter on September 20, 1985 as a result of a spill of mineral spirits. Cleanup work was begun at the site by S & W Waste Company of Kearny, but was not completed.

After Synkote Paint Company filed for bankruptcy in February of 1985, approximately 200 drums, many of which have unknown contents, were abandoned at the site.

Although the Environmental Cleanup and Responsibility Act (ECRA) was triggered by the bankruptcy proceedings, Synkote Paint Company did not acknowledge the responsibility under ECRA and the case was referred to the Attorney General's Office.

ATTACHMENT B-1

Soil has been impacted at the site and there is a potential for groundwater contamination. Garfield Municipal wells are located approximately 3/4 mile from the site.

Of additional concern is the danger the site poses to neighbors. Although the site is surrounded by a six foot cyclone fence and barbed wire, the barbed wire in some areas has been bent down, allowing unauthorized entry. Vandalism and arson could have an impact on neighboring houses.

Based on information obtained through file reviews and on site observations, further investigation through a site inspection is warranted.

SECTION A: QA/QC SAMPLES:
One trip blank to be analyzed for volatile organic chemicals and one field blank to be analyzed for chemicals included on the Toxic Compound List will be provided by the lab for QA/QC purposes. The trip blank will be filled with demonstrated analyte free water at Versar laboratory prior to shipment to the Bureau of Planning and Assessment and will not be opened until it arrives back at Versar with the other samples. The trip blank will serve as a quality control to ensure contaminants are not being transferred between containers during shipment, nor occurring as a result of laboratory contamination.

The field blank will be prepared by pouring demonstrated analyte free water over a lab cleaned stainless steel trowel into sample bottles provided by Versar laboratory. This sample serves as quality control of the sample collection procedures and equipment cleaning process ensuring contaminants are not transferred to the sample via the sample collection equipment. The field blank will be analyzed for the Toxic Compound List.

SECTION B: SOIL SAMPLES:
A total of five (5) soil samples will be collected during the site inspection. Locations were chosen during the pre-sampling assessment conducted on January 18, 1989. At several locations on site, the Organic Vapor Analyzer detected soil gas readings in excess of 1000 parts per million (read as methane). Proposed sample locations are presented on the attached map. Soil 1 will be taken from 0 to 6 inches at the base of the loading dock at the southeast corner of the building. Soil 2 will be taken at 0 to 6 inches adjacent to abandoned drums, where the soil was visibly stained. Soil 3 will be taken at a depth of 1 foot, within the cinder block berm of the former storage tank area. Soil 4 will be taken at a depth of 1 foot among the abandoned drums in an area of stressed vegetation. Soil 5 will be taken at 0 to 6 inches below the corner of a leaking dumpster. Lab cleaned and dedicated stainless steel trowels and bucket augers will be used for sample collection. Soil samples will be analyzed for the Toxic Compound List.

SECTION C: PROCEDURES AND EQUIPMENT:
Lab cleaned and dedicated stainless steel trowels and bucket augers will be used to collect all soil samples. NJDEP sampling procedures and protocol will be followed at all times.

SECTION D: COSTS:

	ANALYSIS	VERSAR PRICES	TOTAL COST
5 soil samples	TCL	$1577.00	$7885.00
1 field blank	TCL	$1515.00	1515.00
1 trip blank	VOA	$ 265.00	265.00
		Total	$9665.00

SECTION E: SHIPPING AND HANDLING:
Samples will be sealed with chain of custody in coolers provided by the laboratory and shipped back to the laboratory via Federal Express (overnight). Versar's Federal Express number is 0200-1989-7.

SECTION F: RECOMMENDATIONS:
All actions undertaken by the Bureau of Planning and Assessment will be coordinated with the NJDEP/Division of Hazardous Waste Management: Metro Region Enforcement Office. It is recommended the abandoned drums be removed from the site immediately before they cause further damage to the environment. The Attorney General's Office should assist the Bureau of Environmental Evaluation and Cleanup Responsibility Assessment (BEECRA) in persuing the responsible party for a cleanup of the site.

DVE:mz
Attachment

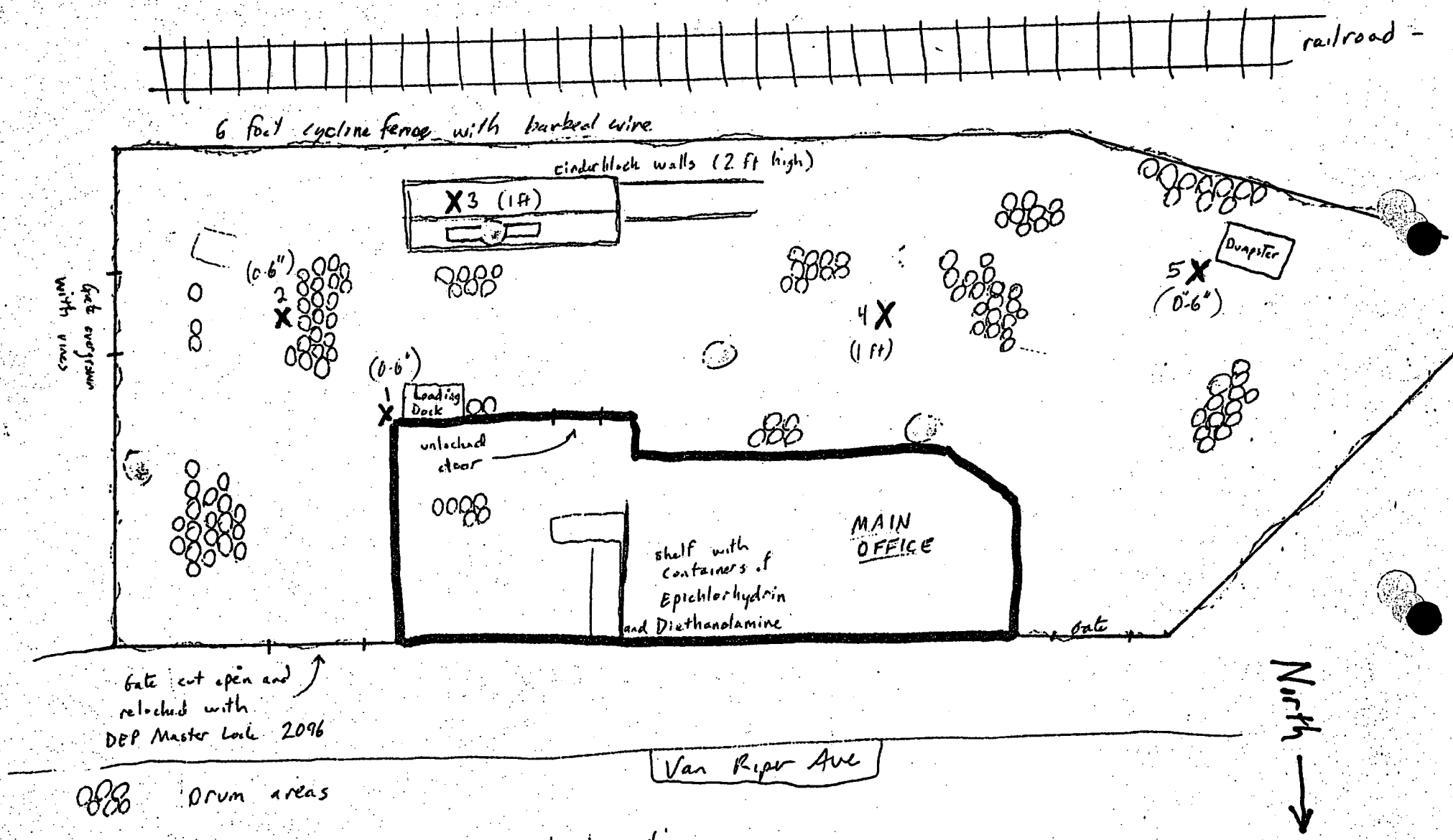
ATTACHMENT B-3

Sampling Plan

Synkote Paint Co.

[not to scale]

Elmwood Park, Bergen Co.



Drum areas

*X Sampling Locations based on visual observation (depth) and OVA readings in excess of 1000 ppm.

Approximate Locations of samples taken by DWR 7/3/85.

David VanEck

ATTACHMENT B-1

SYNKOTE PAINT COMPANY

144-160 Van Riper Avenue
Elmwood Park, Bergen County, New Jersey

The Synkote Paint company manufactured paint from 1956 until February 1985. Complaints were received by NJDEP from local health officials reguarding off site runoff and poor housekeeping. During a NJDEP inspection conducted in November 1984, very poor hazardous waste storage practices and extensive soil contamination were observed. Lab analysis of soil samples taken during an inspection by NJDEP-DWR on June 3, 1985 show contamination by cumene, benzene, styrene, toluene, xylene and other solvents. On January 3, 1986 NJDEP-DWR sent the owner a directive letter instructing ~~him~~ the owner to install monitoring wells and test pits for soil sampling. The owner was also directed to submit a quality assurance/quality control plan. On July 3, 1986 Synkote Paint Company became a lead case for ECRA due to the plants closure.

At the time of this writing, the monitoring wells have not yet been installed and the owner is out of compliance because he has failed to submit the required paperwork to ECRA. Cleanup work was started by S & W Waste Company of Kearny, but has not been completed.

A windshield survey of the site on September 16, 1986 revealed approximately 50-60 drums still remaining on the property. The site is surrounded by a eight foot high fence with a locked gate.

The Garfield Municipal Wells, which supply water to approximately 30,000 people, are approximately 3/4 of a mile from the site and were shown to be contaminated in 1982. A private well 1/2 mile from the site is alos also contaminated. Although the LaPlace Chemical Company is believed by NJDEP-DWR to be responsible for the ground water contamination in the area, a potential exists that Synkote Paint may also contribute to the problem.

I am assigning the Synkote Paint Company site a medium priority for following reasons:

1. Soil contamination by a number of solvents has been documented. Poor housekeeping conditions probably existed for over 20 years.

2. There is a potential for surface water contamination and human contact through site runoff.

3. There is a potential for ground water contamination involving an aquifer that that supplies the Garfield Municipal wells which provide water for 30,000 people.

4. ECRA has not yet begun to address this site.

Submitted by:
Robert Raisch
Robert Raisch
HSMS IV

ATTACHMENT C-1

Hrs. worked: 32

kdp-b

ATTACHMENT C-2

New Jersey Department of Environmental Protection
Potential Hazardous Waste Site

SEVERITY INDEX/PRIORITY ASSESSMENT
Score Sheet

Site Name: Synkote Paint Company Total Score: 22.95

Address: 144-160 Van Riper Ave Priority: Med.

City: Elmwood Park County: Bergen

Coordinates: Latitude: 40° 54' 10" Longitude 74° 07' 00"

Bob Raisch

Waste Characteristics

Toxicity and Persistence: 12 benzene

Waste Quantity: † 3

15 x Containment 3 = 45

Waste Characteristics Total: 45

Exposure Potential

Population Density/Sensitive Environment: 3

Exposure Medium			Observed (x 2)	
Groundwater:	3 x	3 x	1	= 9
Surface water:	2 x	3 x	1	= 6
Air:	3 x	3 x	1	= 9
Soil:	3 x	3 x	2	= 18
Fire/Explosion:	x	x		=
Direct Contact:	3 x	3 x	1	= 9

Exposure Potential Total: 51

Exposure Potential 51 x Waste Characteristics 45 = 2295

Total Score = 22.95 ÷ 100

COMMENTS: Site is 3/4 mile from municipal wells providing water for approx. 30,000 people

ATTACHMENT C-3

Preliminary Assessment

Synkote Paint Company

144 - 160 VanRiper Ave.

Elmwood Park, Bergen Co. NJ

ATTACHMENT C-1

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: | 02 SITE NUMBER:

II. SITE NAME AND LOCATION

01 SITE NAME	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Synkote Paint	144-160 Van Riper Ave.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Elmwood Park	NJ	07407	Bergen	02	

09 COORDINATES LATITUDE	LONGITUDE	
40° 54' 10"	74° 07' 00"	Block 1-C Lot 164

10 DIRECTIONS TO SITE (Starting from nearest public road)

GSP to exit 157 - Rt. 46 E. First light left onto Boulevard cross Market St. First right after railroad tracks onto Van Riper Ave. Synkote Paint Co. is on right

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
Richard E. Max	578 Dorchester Drive		
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**
River Vale	NJ	07675	(201) 391-5182
07 OPERATOR (If known and different from owner)	**08 STREET (Business, mailing, residential)**		
Richard E. Max			
09 CITY	**10 STATE**	**11 ZIP CODE**	**12 TELEPHONE NUMBER**
Same			( )

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 11 / 8 / 84 (MONTH DAY YEAR)
☐ NO
7/3/85

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1956 (BEGINNING YEAR) | 1985 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Lab analysis of soil samples stowed contamination by the following solvents: Cumene, Benzene, styrene, Toluene, and Tylene and other organic solvents.
(Att. B, and D)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

A potential exists for contamination of surface and groundwater including aquiters used for drinking water supply.

(Att. D and H)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)		03 TELEPHONE NUMBER
Anthony DeCandia	Water Resources DEP Metro Office		(201) 669-3900
04 PERSON RESPONSIBLE FOR ASSESSMENT	**05 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NUMBER**	**08 DATE**
Robert Raisch	DEP	DHWM-BSA	(609) 984-3018	10 / 1 / 86 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

ATTACHMENT C-5

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS 250-400 drums

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			Unknown quantity of spillage onto ground over period of 20 yards. years
OLW	OILY WASTE			
SOL X	SOLVENTS			
PSD	PESTICIDES			
OCC X	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Toluene	108-88-3	Spiled onto ground	965	ppm
SOL	O-Xylene	108-38-3		205	"
SOL	M-Xylene	95-47-6		480	"
SOL	Ethylbenzene	100-41-4		17	"
SOL	Benzene	71-43-2		48	"
SOL	Cumene	98-82-8		27	"
SOL	Styrene	100-420-5		103	"
SOL	P-Xylene	106-42-3		160	"
SOL	1,2,4 Trimethulbenzene	NOS		718	"
SOL	1,3,4 Trimethybenzene	108-67-8		23	"
SOL	N - Propylbenzene	103 65-1		25	"

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Att. B, D BSA File. 65 Prospect St., Trenton N.J.

EPA FORM 2070-12 (7-81)

ATTACHMENT C-6

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

Soil contamination was observed and shown through lab analysis providing potential for groundwater contamination. Wells in area are contaminated.
(Att. B, C1-3, H)

01 [X] B. SURFACE WATER CONTAMINATION
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

Surface run off into storm sewer catch basin observed by local Health officer catch basin water empties into Passaic River.
(Att. C2, F)

01 [X] C CONTAMINATION OF AIR
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

There is a potential of air contamination from volatiles in soil, if the soil is disturbed.
(Att. B)

01 [ ] D FIRE/EXPLOSIVE CONDITIONS
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

[illegible] [X] POTENTIAL [illegible] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____
04 NARRATIVE DESCRIPTION

There is a potential for direct contact of waste material from site runoff.
(Att. C2)

01 [X] F CONTAMINATION OF SOIL
02 [X] OBSERVED (DATE: 11/13/84) [ ] POTENTIAL [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (acres)
04 NARRATIVE DESCRIPTION

During RCRA inspection ground was observed to be heavily covered with deposits of unknown chemicals. Lab analysis shows contamination of soil by solvents.
(Att. B, C, and D)

01 [X] G DRINKING WATER CONTAMINATION
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 30,000
04 NARRATIVE DESCRIPTION

Garfield municipal wells are approximately 3/4 of mile from site. Sampling results indicate contamination at wells by TCE, PCE., 111 Trichlorethane and other organics at this time contamination has been largley attributed to LaPlace Chemicals.
(Att. E and F)

01 [X] H. WORKER EXPOSURE/INJURY
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

Workers may have been exposed to organic solvents when company was operational.
(Att. C1-3)

01 [X] I. POPULATION EXPOSURE/INJURY
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 30,000
04 NARRATIVE DESCRIPTION

Population may be exposed through off site runoff and contaminated drinking water.
(Att. F and H)

EPA FORM 2070-12 (7-81)

ATTACHMENT C-7

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☒ OBSERVED (DATE: 11/8/84 8/4/82) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
Very poor storage practices of drums containing waste material was observed during DEP inspections. (Att. C1-3)

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
Citizen who complained about runoff from Synkote indicated car tires had been damaged by it. (Att. C2)

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
Elmwood Park Health officer and citizens have seen whitish-colored runoff into storm drain. No date was given. (Att. C2, F)

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

As of June 3, 1986 Synkote Paint Company became an ECRA lead case. (Att. G)

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

BSA File, Trenton - Att. B, D and E.
Metro Water Resources File - Att. C1-3, F and G..

EPA FORM 2070-12 (7-81)

ATTACHMENT C-8

Synkote Paint
144-160 Van Riper Ave
Elmwood Pk
Bergen Co.

PRELIMINARY ASSESSMENT FILE SEARCH

NJDEP

DIVISION OF WATER RESOURCES:
Central 9/15 - No File
A. Enforcement Metro 9/15 Anthony Dicarlo - File (incharge elsewhere) Bernice Grandison spoke to

B. Groundwater

C. Other

DIVISION OF WASTE MANAGEMENT:
central 9/15 - No File - M. Balosic
A. HSMA
Metro BFO 9/15 Joan (File)
B. Enforcement

C. Solid Waste

ENVIRONMENTAL QUALITY:

A. Air Pollution

B. Pesticides

C. Other

DIVISION OF FISH AND GAME:

OFFICE OF SCIENCE AND RESEARCH:

A. Industrial Survey

B. Other

N.J. DEPARTMENT OF HEALTH:

LOCAL AUTHORITIES:

A. Health Department - Elmwood Park H.D. 1-796-1072 9/15 - Sylvia Cavella
Garfield Waterworks - Charles Moore - Pumpstation
Municiple - Tax (File) 80 Rose Drive Market St.
B. Town or ~~County Clerk~~ 1-478-9081 - 9/18

Flasters break

UNITED STATES GOVERNMENT:

A. EPA - 9/15 - Edison ~~file~~ No file Suzett Salvaris

B. other

ATTACHMENT C-9

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

DATE: SEP - 5 1989

SUBJECT: Preliminary Assessment and CERCLA Removal Action Authorization for Synkote Paints, Elmwood Park, Bergen County, New Jersey
ACTION MEMORANDUM

FROM: Dwayne M. Harrington, On-Scene Coordinator
Response and Prevention Branch

RECEIVED
OCT 27 1989

TO: William Muszynski, P.E.
Acting Regional Administrator

THRU: Stephen D. Luftig, Director
Emergency and Remedial Response Division

I. ISSUE

On February 16, 1989, Dr. John J. Trela, Director, Division of Hazardous Waste Management, State of New Jersey Department of Environmental Protection (NJDEP), requested that the U.S. Environmental Protection Agency (EPA) undertake a Removal Action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA), to mitigate the threat posed by drums, containers, and vessels of hazardous substances at the Synkote Paints site in Elmwood Park, New Jersey.

An investigation by EPA confirmed the presence of approximately 300 improperly stored drums, containers, and vessels of hazardous substances at the site. Labels on some of the containers indicate the contents to be predominantly solvents, corrosives, and paint waste solutions. Many of these materials are flammable and/or poisonous and present a threat of fire or vapor release. Many of the drums and vessels are deteriorated and present the potential for human exposure through direct contact or discharge into the environment. Many of these materials are highly toxic, incompatable, and potentially unstable under their present storage conditions. There are reports of break-ins and vandalism at the facility.

These hazardous substances pose a threat to citizens of the community and firefighters who might respond to a fire at the facility. This Action Memorandum recommends that a Removal Action be conducted pursuant to CERCLA, as amended by SARA, in the form of a removal and disposal of the hazardous substances contained in the facility. The total project ceiling for this Removal Action would be $406,000, of which $228,000 is for mitigation contracting.

II. BACKGROUND

A. Site Setting/Description:

Synkote Paints manufactured solvent-based industrial coatings from 1956 until the company filed for bankruptcy in 1985. At that time, the building was abandoned and approximately 300 drums, containers, and reactor vessels were abandoned on the site. The property was foreclosed upon by the National Community Bank of New Jersey in 1986 for unpaid mortgage debts and purchased via a sheriff's sale in 1988 by Property Concepts, Inc., Elmwood Park, New Jersey. The building is currently unoccupied.

The site is located in a mixed residential/light industrial area at 144-160 Van Riper Avenue, Elmwood Park, New Jersey (Attachment 1). The site consists of one building of approximately 20,000 square feet, located on a one-half acre lot enclosed by an eight-foot perimeter fence. The site is adjacent to an operating facility and is directly across the street from a residential neighborhood (Attachment 2). Approximately 5,000 people live within a one-half mile radius of the site.

The building consists primarily of two large storage/operations rooms (Attachment 3). The building is accessible through three building entrance doors, two large garage doors, and numerous windows. The current owner of the site has recently boarded the doors and windows of the building as a deterent against break-ins and vandalism at the site.

B. Incident/Release Characteristics:

Approximately 300 drums, containers, and vessels are located in the building and throughout the site. Most of the drums are located outside of the building, scattered throughout the site. The drums and containers are haphazardly stored irrespective of their condition or the compatibility of their contents. Many of the drums are deteriorated and have released their contents onto the ground and building floor. The building also contains a small laboratory area containing numerous unsecure containers of acutely toxic, flammable, and corrosive materials.

Evidence of past spills and ongoing releases from deteriorated drums, including liquid stains and residues, exist throughout the building. Air monitoring performed during EPA's investigation detected levels of organic air contaminants above background in some areas of the building. Soil sampling performed by NJDEP in 1988 confirmed surficial soil contamination and the need for further soil investigations throughout the site.

To date no sampling or analysis of the materials on the site has been performed by EPA.

This site is not listed on the National Priorities List (NPL).

C. Quantities and Types of Substances Present:

Approximately 300 drums, containers, and reactor vessels of hazardous substances are stored on the site. Based on information obtained from container labels and drum inventories during EPA's investigation, the following substances have been tentatively identified on site:

Compound	Statutory Source for Designation as Hazardous Substances
Benzene	CWA §311 (b)(4) CWA §307 (a) CAA §112 RCRA §3001
Toluene	CWA §311 (b)(4) CWA §307 (a) RCRA §3001
Xylene	CWA §311 (b)(4)
Epichlorohydrin*	CWA §311 (b)(4)
Diethanolamine	RCRA §3001
Glacial Acetic Acid	CWA §311 (b)(4)
Isophorone	CWA §311 (b)(4)

* Listed in Chemical Emergency Preparedness Program List 402 of Extremely Hazardous Substances

These hazardous substances are acutely toxic, chronically toxic, corrosive, reactive, and/or flammable.

The potential health effects from the compounds are identified below:

POTENTIAL HEALTH AND TOXICOLOGICAL EFFECTS

	Carcinogenicity	Liver Damage	Kidney Damage	Respiratory Damage	Central Nervous System Damage	Dermal Effects	Cardiovascular Effects
Benzene	X			X	X	X	X
Toluene		X	X		X	X	
Xylene		X	X		X	X	X
Epichlorohydrin	X		X	X		X	
Diethanolamine				X		X	
Acetic Acid				X		X	
Isophorone				X		X	

Many of the drums on the site are unlabelled and contain unidentified substances.

D. State and Local Authorities' Roles:

The NJDEP issued a Directive to Synkote Paints in 1985 with which the owner of the facility was unable to comply. Limited action was taken by the PRP via a contractor at that time to stabilize and secure conditions at the site and remove hazardous materials from the site. Some of the materials were consolidated and overpacked, however, work ceased on the site prior to any of the materials being removed or disposed of. On February 16, 1989, Dr. John J. Trela, Director, Division of Hazardous Waste Management, NJDEP, requested that EPA perform a CERCLA/SARA Removal Action at the Synkote Paints site as the site appeared to present a significant threat to public health and welfare and was beyond the scope of their current removal program capabilities. The current owner of the site, Property Concepts Inc., has taken steps to secure the site from unauthorized entry. Based on conditions found on the site EPA has recommended to the Elmwood Park Police Department and Bergen County Hazardous Materials Unit that the site be routinely surveilled.

III. THREAT TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT:

A. Threats to Public Health or Welfare:

The primary threat posed by the abandoned drums, containers, and vessels is that of exposure through direct human contact, fire, explosion, and vapor exposure caused by a reaction of the hazardous materials. A site inspection by EPA found that the drums and containers are haphazardly stored irrespective of their contents or condition. Most of the drums are located outside of the building, scattered throughout the site. Many of the drums are deteriorating and have released their contents onto the building floor or ground. Many of the materials identified are flammable, corrosive, and/or acutely toxic. Some of these materials, such as organic solvents, epichlorohydrin, and metallic powders, can potentially autoignite and/or produce toxic vapors and fumes if mixed.

The building is adjacent to an operating facility and a residential neighborhood. Vapors produced during a fire or runaway chemical reaction could be hazardous to area residents and workers at the neighboring facility. It would also be difficult for firefighters to avoid contamination from smoke and fumes during firefighting efforts. Conventional firefighting techniques might only serve to aggravate the situation by increasing the reactivity and vapor production of many of the substances during a fire or runaway chemical reaction at the site.

There is potential for human exposure from direct contact with the hazardous substances at the site. There are reports of break-ins and vandalism at the site, however, EPA has yet to confirm these reports. Some of the hazardous substances on site, such as epichlorohydrin, are highly toxic on contact. Some of the substances, such as benzene and epichlorohydrin, are known or suspected carcinogens.

B. Threats to the Environment:

There is potential for discharge into the environment. Many of the drums are deteriorated and have released their contents onto the building floor or ground. There are no secondary containment structures surrounding any of the drums or vessels on the site. Analysis by NJDEP indicates soil contamination on the site and a potential for groundwater contamination.

IV. ENFORCEMENT

Four potentially responsible parties (PRPs) have been identified for the Synkote Paints site. They are: Synkote Paints, Mr. Richard E. Max, (former owner and operator of Synkote from the mid-1970s until its filing for bankruptcy and closing in 1985); National Community Bank of New Jersey, (who foreclosed on a mortgage on the property in 1985); and Property Concepts Inc., (who purchased the property from National Community Bank via a sheriff's sale in 1988). The New Jersey Site Compliance Branch and Office of Regional Counsel have issued Notice Letters, dated April 25, 1989, to Synkote Paints, Mr. Richard Max, The National Community Bank of New Jersey (NCB), and Property Concepts Inc., (PCI).

Mr. Richard Max, through his attorney, has expressed no interest in performing a removal action. NCB has denied any liability. A Consent Order for the removal of all hazardous materials from the site has been sent to Property Concepts Inc for its consideration. If that fails, a Unilateral Order directing the removal of all hazardous substances may be issued to Property Concepts Inc. prior to any EPA actions on the site. At this time, however, it appears unlikely that PCI will be able to adequately comply with the terms of either the Consent or Unilateral Order. Appropriate enforcement actions, including full or partial cost recovery and/or an Order requiring further investigation of soil contamination at the site, may be pursued under CERCLA/SARA following the completion of this Removal Action.

V. PROPOSED PROJECT AND COST

A. Objective of the Project:

The objective of this project is: 1) to abate the actual or potential threat to public health and welfare; 2) to immediately mitigate the actual or potential threat of fire, explosion, or release of hazardous substances into the environment in accordance with Section 300.65 of the National Contingency Plan; and 3) to remove and dispose of the hazardous substances at the site in accordance with the Resource Conservation and Recovery Act (RCRA) and EPA's CERCLA Off-Site Treatment, Storage, and Disposal Policy, Section 121 (d)(3) of SARA.

The objective will be achieved by performing the following tasks:

1) Securing Drums and Containers:

Leaking or unsecure drums and containers will be overpacked as necessary. All materials will be stored on site in a secured area.

2) Segregation and Sampling:

Materials will be segregated on site by existing identification labels and container condition to ensure proper separation of incompatible materials. Materials will be sampled as needed for disposal purposes.

Manufacturers and others will be solicited to reclaim drums and containers which appear to contain useable product for recycling and reuse.

3) Bulking, Transportation and Disposal:

Compatible materials will be bulked as necessary for transportation and disposal. Manufacturers which can be identified will be contacted to reclaim those materials that can be reused or recycled. EPA will dispose of unusable or non-recyclable materials at an approved facility and in accordance with EPA's CERCLA off-site disposal policies.

B. Project Estimated Costs:

1) Mitigation Contracting (ERCS):

a. Labor: including mobilization/demobilization, sampling, segregation, staging, and overpacking. (1 Response Manager, 1 Chemist, 1 Foreman, 1 Operator, 2 Clean-up Tech's, 1 Field Clerk)	$ 40,000
b. Equipment: 1 decontamination trailer, 1 forklift, Level B personal protective gear, non-spark tools, etc.	$ 25,000
c. Materials and field purchases: (overpack drums, sampling materials, etc.)	$ 25,000
d. Laboratory disposal analysis:	$ 40,000
e. Transportation and disposal	$ 60,000
SUBTOTAL	$190,000
20% Contingency	$ 38,000
SUBTOTAL (Contract Mitigation Costs)	$228,000
2) Intramural EPA Costs	$ 50,000
3) Extramural TAT Costs	$ 75,000
SUBTOTAL	$ 353,000

ATTACHMENT D-7

Other Costs (15% of above costs)	$ 52,950
ESTIMATED TOTAL PROJECT CEILING	$ 405,950
ESTIMATED ROUNDED TOTAL (to the next $1000)	$ 406,000

Overall project costs could be reduced if manufacturers are able to reclaim materials for recycling or reuse.

C. Project Schedule:

The project can be initiated within one week of approval of the request for fund authorization. Segregation, sampling, overpacking, and securing of the drums and containers can be accomplished within three to four weeks. Disposal analyses turn-around time is estimated at four weeks. Final removal and disposal should be complete within nine weeks of receipt of the disposal analysis results. The entire project should therefore take 17 weeks to complete. Notifying and coordinating with manufacturers to reclaim materials could add or delete 2-4 weeks to the project schedule.

VI. EXPECTED CHANGE IN THE SITUATION SHOULD NO ACTION BE TAKEN OR ACTION BE DELAYED

Delayed action in securing and removing the hazardous substances from the site will extend the period of time that nearby residents are exposed to the threats presented by the conditions on the site. There is also the continuing threat of vandalism at the site. During EPA's site investigation, drums were observed which were bulging. This condition may be indicative of contents under abnormally high pressure. Many of the drums are deteriorated and have released or are soon likely to release their contents onto the ground. A delayed response will therefore also likely result in further soil and possibly groundwater contamination.

VII. RECOMMENDATION

Conditions at the Synkote Paints site meet the criteria for a Removal Action under 40 CFR §300.65 (b)(2) of the National Oil and Hazardous Substances Contingency Plan (NCP) in that there exists:

a) Actual or potential exposure to hazardous substances or pollutants or contaminants by nearby populations, animals, or food chain (40 CFR §300.65 (b)(2)(i));

b) Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release (40 CFR §300.65 (b)(2) (iii));

c) Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released (40 CFR §300.65 (b)(2)(v).

d) Threat of fire or explosion (40 CFR §300.65 (b)(2)(vi)).

This Removal Action is consistent with the Section 104(a)(2) of CERCLA, as amended by SARA, in that it will accomplish the efficient performance of long-term remedial measures in the short term. I recommend your approval of this CERCLA removal funding request. The estimated project ceiling for this site is $406,000, of which $228,000 is for mitigation contracting. The estimated costs of this project are within the Regional Advice of Allowance for FY '89.

Your authority to approve these project funds is pursuant to Assistant Administrator J. Winston Porter's May 25, 1988, redelegation memorandum, Delegation Number R-14-1-A.

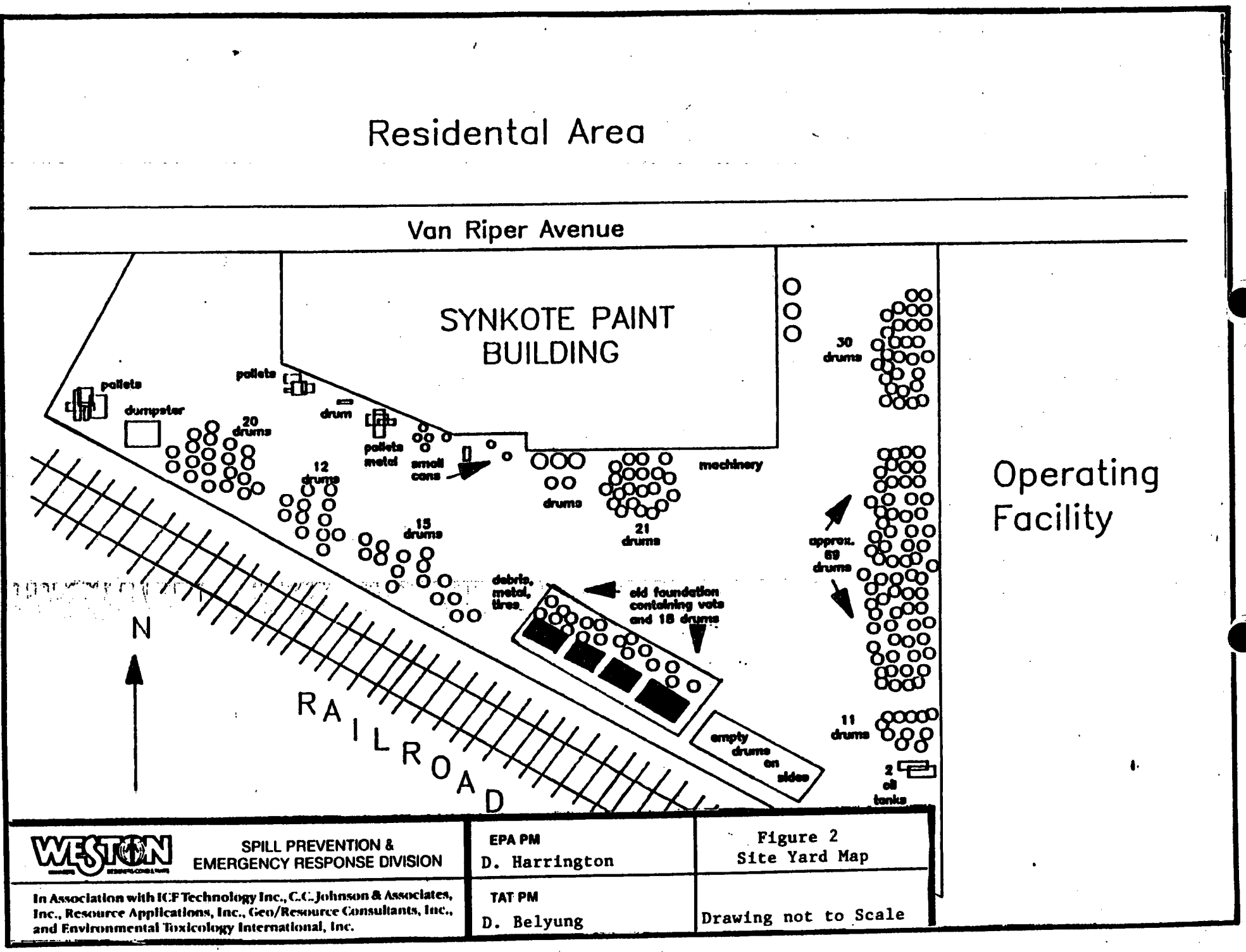
Approval: _____ Date 9/6/89

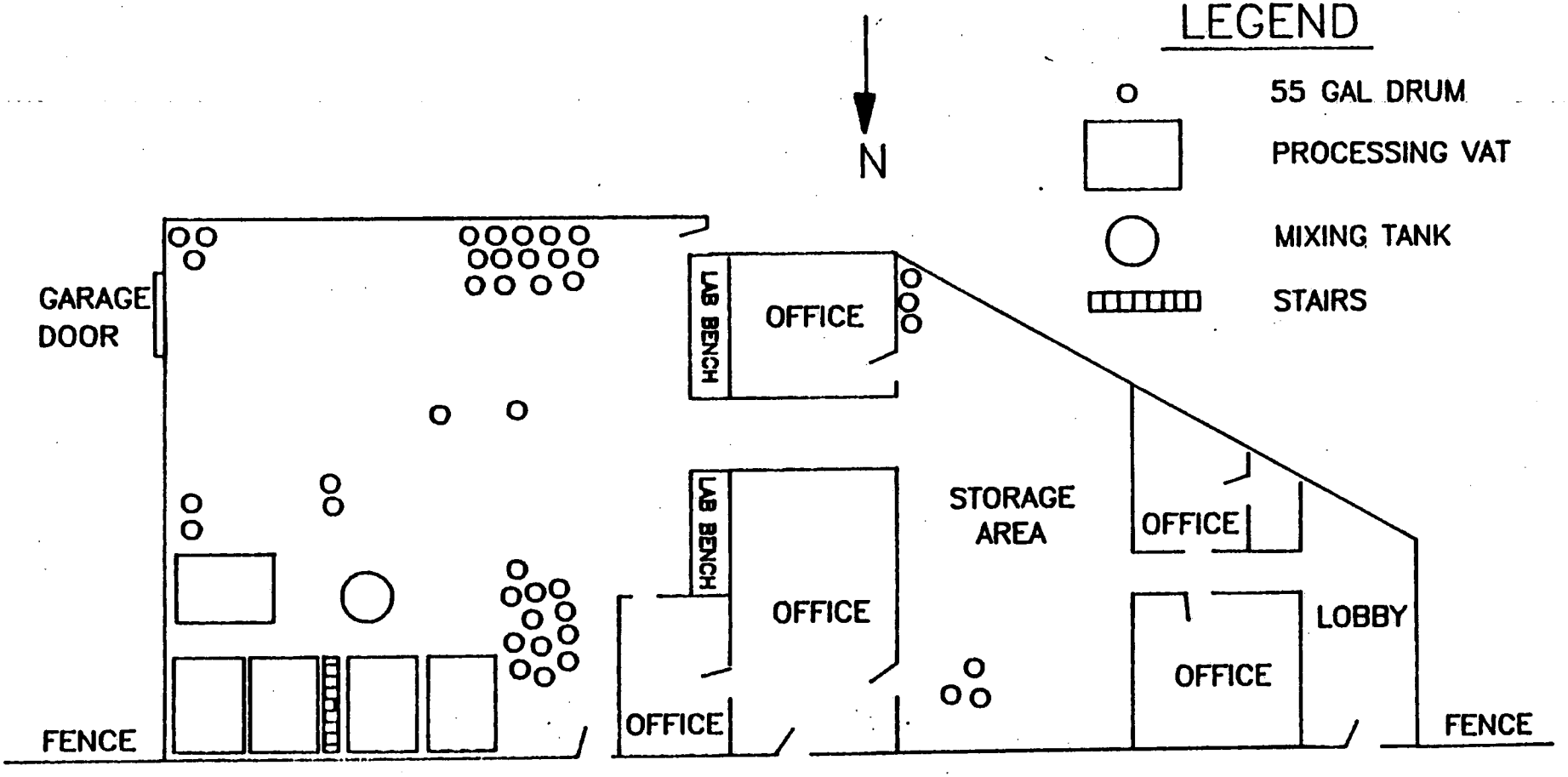
Disapproval: _____ Date _____

cc: (After approval is obtained)

R. Salkie, 2ERR-ADREPP
S. Luftig, 2ERR
B. Sprague, 2ERR-RPB
G. Pavlou, 2ERRD-ADEP
M. Randol, 2OEP
D. Karlen, 2ORC-NJSUP
R. Gherardi, 2OPM-FIN
S. Anderson, PM-214F (EXPRESS MAIL)
T. Fields, OS-210
G. McCann, NJDEP
C. Moyik, 2ERRD-PS
L. Guarneiri, OS-210
D. Henne, 2TATL

ATTACHMENT D-9


Residental Area
Van Riper Avenue
SYNKOTE PAINT BUILDING
pallets
pallets
dumpster
drum
20 drums
pallets metal
small cans
12 drums
15 drums
drums
21 drums
mechinery
30 drums
approx. 69 drums
debris, metal, tires
old foundation containing vats and 18 drums
empty drums on sides
11 drums
2 oil tanks
N
RAILROAD
Operating Facility
WESTON
SPILL PREVENTION & EMERGENCY RESPONSE DIVISION
In Association with ICF Technology Inc., C.C. Johnson & Associates, Inc., Resource Applications, Inc., Geo/Resource Consultants, Inc., and Environmental Toxicology International, Inc.
EPA PM
D. Harrington
TAT PM
D. Belyung
Figure 2
Site Yard Map
Drawing not to Scale



WESTON — SPILL PREVENTION & EMERGENCY RESPONSE DIVISION In Association with ICF Technology Inc., C.C. Johnson & Associates, Inc., Resource Applications, Inc., Geo/Resource Consultants, Inc., and Environmental Toxicology International, Inc.	EPA PM D. Harrington TAT PM D. Belyung	Figure 3 Building Interior Drawing not to Scale

21-2

Linda

#02-11-04

RECEIVED
JUN 14 1989

APR 25 1989

URGENT LEGAL MATTER

EXPRESS MAIL
RETURN RECEIPT REQUESTED

Synkote Paint
c/o Mr. Richard E. Max
578 Dorchester Drive
Rivervale, New Jersey 07675

c: Ken Yacone + return

Re: Synkote Paint, 144-160 Van Riper Avenue
Elmwood Park, New Jersey

Dear Mr. Max:

The United States Environmental Protection Agency ("EPA") is charged with responding to the release or threatened release of hazardous substances into the environment and with enforcement responsibilities under the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. §9601 et seq., as amended ("CERCLA"). EPA also regulates the handling of hazardous waste under the Solid Waste Disposal Act, 42 U.S.C. §6901 et seq. as amended by the Resource Conservation and Recovery Act ("RCRA") and other laws.

This letter constitutes official notification to Synkote Paint of potential liability, as defined by Section 107(a) of CERCLA, that Synkote Paint may incur or may have incurred with respect to the above-referenced site. This letter also notifies Synkote Paint of potential response activities at the site, and encourages Synkote Paint to voluntarily perform those response activities that EPA determines are necessary at the site.

EPA has documented the release or threatened release of hazardous susbstances, pollutants or contaminants at the Synkote Paint facility. EPA is considering spending public funds on actions to investigate and control such releases or threatened releases at the site. Unless EPA reaches an agreement under which a potentially responsible party ("PRP") or parties will properly perform or finance such actions, EPA may perform these actions pursuant to Section 104 of CERCLA.

Under Sections 106(a) and 107(a) of CERCLA, 42 U.S.C. §9606(a) and §9607(a), Section 7003 of RCRA, 42 U.S.C. §6973, and other

ATTACHMENT E-1

laws, PRPs may be obligated to implement response actions deemed necessary by EPA to protect public health, welfare or the environment and may be liable for all costs incurred by the government in responding to any release or threatened release at the site. Such actions and costs may include, but are not limited to, expenditures for investigations, planning, response, oversight and enforcement activities. In addition, PRPs may be liable for damages to natural resources. EPA may issue an administrative order pursuant to Section 106(a) of CERCLA to require PRPs to commence cleanup activities. Failure to comply with an administrative order issued under Section 106(a) of CERCLA may result in a fine of up to $25,000 per day, under Section 106(b) of CERCLA, or imposition of treble damages under Section 107(c)(3).

EPA has evaluated information in connection with the investigation of the site. Based on this information, EPA believes that Synkote Paint may be a PRP with respect to this site. PRPs under CERCLA include current and former owners or operators of the site, as well as persons who arranged for disposal or treatment of hazardous substances sent to the site, or persons who accepted hazardous substances for transport to the site. By this letter, EPA notifies Synkote Paint of its potential liability with regard to this matter and encourages Synkote Paint to voluntarily perform or finance those response activities that EPA determines are necessary at the site.

For your information, the response action contemplated by EPA will include, but will not be limited to, the sampling and analysis and the removal of all tanked liquids, drummed wastes and other wastes in containers present at the Synkote Paint facility, and it will also include the proper disposal of those wastes which will depend upon analysis of their constituents. Proper disposal of the wastes present at the Synkote Paint facility may include their removal to a secure landfill, incineration or other appropriate disposal methods. The planning lead time to conduct the removal action will be no longer than 60 days from the date of this letter as EPA has determined that the Synkote Paint facility may pose an immediate threat to public health, welfare or the environment.

In addition to the removal actions outlined in this letter, EPA will also determine at a subsequent time whether additional corrective measures are required to mitigate any releases from the site to protect the public health, welfare or the environment.

Under CERCLA Section 122(e), EPA has the discretionary authority to invoke special notice procedures to formally negotiate the terms of an agreement between EPA and PRPs to conduct or finance response activities. Use of these special notice procedures triggers a moratorium on certain EPA activities at the site while

formal negotiations between EPA and the PRP or PRPs are conducted.

In this case, EPA has decided not to invoke the Section 122(e) special notice procedures. In order to expedite cleanup activities, it is EPA's policy not to use the Special Notice procedures for removals unless there is a 6-month planning lead time after the decision to respond and prior to the initiation of the action. Since the planning lead time prior to the initiation of this response action is less than 6 months, special notice procedures will not be used. Nonetheless, EPA is willing to discuss settlement opportunities without invoking the moratorium, but will initiate the response action as planned if such discussions do not lead to settlement expeditiously.

EPA would like to encourage good faith negotiations between the PRPs and EPA and among the PRPs. To assist PRPs in preparing a proposal and in negotiating with EPA concerning this matter, EPA is providing a list of names and addresses of PRPs to whom this notification is being sent. The list is attached to this letter. This list represents EPA's preliminary findings on the identities of PRPs. Inclusion on, or exclusion from, the list does not constitute a final determination by EPA concerning the liability of any party for the release or threat of release of hazardous substances at the site.

EPA requests Synkote Paint's cooperation in this matter and suggests that representatives from Synkote Paint meet with the other named parties to address performing the removal action at the site. If Synkote Paint is interested in participating in negotiations with EPA regarding the proposed removal action at the site, Synkote Paint should notify EPA of its intention to enter into formal negotiations. Notification should be in writing and should be delivered to EPA no later than fourteen (14) days after the date you receive this letter. Synkote Paint's letter should be sent to:

U.S. Environmental Protection Agency
Region II
New Jersey Compliance Branch
26 Federal Plaza, Room 747
New York, New York 10278
Attention: Howard Orlean

If EPA does not receive a written response from Synkote Paint in the time specified above, EPA will assume that Synkote Paint does not wish to negotiate a resolution of its liabilities in connection with the response, and that Synkote Paint has declined any involvement in performing the response activities. Synkote Paint may be held liable under Section 107 of CERCLA for the cost of the response activities EPA performs at the site and for any damages to natural resources.

ATTACHMENT E-3

The factual and legal discussions in this letter are intended solely for notification and information purposes. They are not intended to be and cannot be relied upon as final EPA position on any matter set forth herein.

If you or any other authorized representative from Synkote Paint wish to discuss this matter in further detail, please contact Howard Orlean of my staff at (212) 264-6195 or Rudolph S. Perez of the Office of Regional Counsel at (212) 264-3148. We appreciate your giving this matter your immediate attention.

Sincerely yours,

Stephen D. Luftig, Director
Emergency and Remedial Response Division

cc: Gerald Burke, Deputy Director
Office of Regulatory Services, NJDEP

John J. Trela, Director
Division of Hazardous Waste Management, NJDEP

David W. Oster
Bureau of Field Operations, NJDEP

bcc: Rudolph S. Perez, ORC-NJSUP
Howard Orlean, ERRD
Dwayne Harrington, OSC

ATTACHMENT E-4

Let's protect our earth

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
2 Babcock Place
West Orange, N.J. 07052
201 - 669 - 3960

FEB 07 1989

TO: Wayne Howitz, Chief, Bureau of Compliance & Technical Services

FROM: David Beeman, Spill Section Chief, Metro Bureau of Enforcement

RE: Synkote Paint as a Possible EPA Removal Action Candidate

Synkote Paint is located at 144-160 Van Riper Ave., Block 164, Lot 1C, Elmwood Park, Bergen County. The facility was operated for the manufacture of solvent based industrial coatings until 1987. The President of Synkote Paint is Richard Max, 578 Dorcester Ave., Rivervale, N.J. The site was recently purchased by Property Concepts at a Sheriff's Sale. This sale took place even though this is an ECRA applicable site.

The site is approximately one acre. The facility is located in a mixed residential / light industry area with residences located directly across Van Riper Ave. Conditions at the site are described in the attached memo from Dave Oster. Although the outside areas of the property are surrounded by an 8 foot fence, access has been obtained by vandals to all parts of the property through the building.

The site should be considered for a removal action by EPA. Actions should include removal of all hazardous material, including ignitibles and poisons and may included the removal of grossly contaminated soil.

ATTACHMENT F

Let's protect our earth

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
2 Babcock Place
West Orange, N.J. 07052
201 - 669 - 3960

MEMORANDUM

TO: Linda Grayson, Chief
Bureau of Planning and Assessment

FROM: Yacoub E. Yacoub, Chief
Metro Bureau of Field Operations

SUBJECT: Referral of Synkote Paint Co.
To Planning and Assessment
DHWM #02-11-04

DATE: January 6, 1989

The Synkote Paint Co. formerly operated at 144-160 Van Riper Ave., Elmwood Park (Bergen County). In 1985 the facility was closed, and approximately 250 containers of hazardous and unknown wastes were left on-site. It was subsequently determined that the facility was subject to ECRA cleanup, however, the owner did not file and later declared bankruptcy. The property was then sold at a Sheriff's sale, without the knowledge of NJDEP.

ECRA has referred the matter of Synkote to the Attorney General's Office. However, the hazardous and unknown containers which remain at the site are in poor condition, and some are leaking. Soils have been impacted and groundwater may be contaminated. Conditions at the site also represent a threat to human health as private residences are located nearby. In light of the above factors it is recommended that Synkote be referred to Planning and Assessment for assignment to the proper Division element.

If additional information is required please contact Dave Oster at (201) 669-3981.

DO:hc

HM-043-87

11-16

Let's protect our earth

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
2 Babcock Place
West Orange, N.J. 07052
201 - 669 - 3960

JUL 6 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Synkote Paint Co.
144-160 Van Riper Avenue
Elmwood Park, New Jersey 07407

RE: NOTICE OF CIVIL ADMINISTRATIVE PENALTY ASSESSMENT

Dear Sir:

There is enclosed for service upon you, a Notice of Civil Administrative Penalty Assessment issued by the New Jersey Department of Environmental Protection pursuant to the provisions of the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq.

If you have any questions concerning this Notice of Civil Administrative Penalty Assessment, please contact Michael Hastry at (201) 669-3988.

Very truly yours,

Ronald T. Corcory
Acting Assistant Director - Enforcement
Division of Hazardous Waste Management

Enclosure
cc. Bureau of Compliance and Technical Services
Division of Water Resources Enforcement
Metro Region Field Office
Bureau of Hazardous Waste Engineering
Bureau of Manifest & Information Systems
Mayor
Health Department
County Solid Waste Coordinator
Central File

ATTACHMENT 14-1

HM-
043-87

Let's protect our earth

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
2 Babcock Place
West Orange, N.J. 07052
201 - 669 - 3960

JUL 6 1987

IN THE MATTER OF	:	NOTICE OF CIVIL ADMINISTRATIVE
Synkote Paint Co.	:	PENALTY ASSESSMENT
144-160 Van Riper Avenue	:	
Elmwood Park, New Jersey 07407	:	

This Notice of Civil Administrative Penalty Assessment is issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (hereinafter "NJDEP" or the "Department") by N.J.S.A. 13:1D-1 et seq. and the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and duly delegated to the Assistant Director for Enforcement of the Division of Hazardous Waste Management pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. The New Jersey Department of Environmental Protection (hereinafter "the Department") has determined that Synkote Paint Company is a generator of hazardous waste (EPA ID# NJD001394089) as defined by N.J.A.C. 7:26-1.4 and is located at Block 164, Lot 1C, 144-160 Van Riper Avenue, Elmwood Park Borough, County of Bergen, State of New Jersey.

2. During the course of a routine manifest audit conducted at S & W Waste facility on June 4, 1986, a Departmental Representative noted that Synkote Paint Company failed to use the proper shipping description on hazardous waste manifest #NJA0191661; in violation of N.J.A.C. 7:26-7.4(e)1.

3. Based on the facts set forth in these FINDINGS, the Department has determined that Synkote Paint Company has violated the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq. and the regulations promulgated pursuant thereto, N.J.A.C.7:26-1 et seq., specifically N.J.A.C. 7:26-7.4(e)1.

NOTICE OF CIVIL ADMINISTRATIVE PENALTY ASSESSMENT

4. Pursuant to N.J.S.A. 13:1E-9e and based upon the above FINDINGS, the Department has determined that a civil administrative penalty should be assessed against Synkote Paint Company in the amount of $875.00.

5. Payment of the penalty is due when a final order is issued by the Commissioner subsequent to a hearing, if any, or when this Notice of Civil Administrative Penalty Assessment becomes a final order (see following paragraph). Payment shall be made by certified check payable to "Treasurer, State of New Jersey" and shall be submitted to:

New Jersey Department of Environmental Protection
Bureau of Collections, Licensing and Management
Services - FMPGS
CN 402
Trenton, NJ 08625

6. If no request for a hearing is received within twenty (20) calendar days from receipt of this Notice of Civil Administrative Penalty Assessment, it shall become a final order upon the twenty-first calendar day following its receipt and the penalty shall be due and payable.

NOTICE OF RIGHT TO A HEARING

7. Pursuant to N.J.S.A. 52:14B-1 et seq. and N.J.S.A. 13:1E-9, Synkote Paint Company is entitled to an administrative hearing. Any hearing request shall be delivered to the address below within twenty (20) calendar days from the receipt of this Notice of Civil Administrative Penalty Assessment.

New Jersey Department of Environmental Protection
Division of Hazardous Waste Management
CN 028
Trenton, New Jersey 08625
Attention: Assistant Director for Enforcement

8. Synkote Paint Company shall, in its request for a hearing, furnish NJDEP with the following:

a. A statement of the legal authority and jurisdiction under which the hearing or action to be taken is to be held;

b. A reference to the particular sections of the statutes and rules involved;

c. A short and plain statement of the matters of fact and law asserted;

d. The provisions of this Notice of Civil Administrative Penalty Assessment to which Synkote Paint Company objects, the reasons for such objections, and any alternative provisions proposed.

GENERAL PROVISIONS

9. This Notice of Civil Administrative Penalty Assessment is binding on Synkote Paint Company its principals, directors, officers, agents, successors, assigns, any trustee in bankruptcy or other trustees, and any receiver appointed pursuant to a proceeding in law or equity.

10. Notice is given that violations of any statutes, rules or permits other than those herein cited may be cause for additional enforcement actions, either administrative or judicial. By issuing this Notice of Civil Administrative Penalty Assessment the Department does not waive its rights to initiate additional enforcement actions.

11. No obligations imposed by this Notice of Civil Administrative Penalty Assessment (with the exception of paragraph 4, above) are intended to constitute a debt, damage claim, penalty or other civil action which should be limited or discharged in a bankruptcy proceeding. All obligations are imposed pursuant to the police powers of the State of New Jersey, intended to protect the public health, safety, welfare and environment.

12. Notice is given that pursuant to N.J.S.A 13:1E-9e, the Department is authorized to assess a civil administrative penalty of not more than $25,000.00 for each violation and additional penalties of not more than $2,500.00 for each day during which the violation continues after receipt of an administrative order from the Department.

13. Notice is further given that pursuant to N.J.S.A. 13:1E-9f, any person who violates N.J.S.A. 13:1E-1 et seq. or any code, rule or regulation promulgated thereunder shall be liable to a penalty of not more than $25,000.00 per day of such violation, and each day's continuance of the violation shall constitute a separate violation.

14. Notice is further given that pursuant to N.J.S.A. 13:1E-9f, any person who violates an administrative order issued pursuant to N.J.S.A. 13:1E-9c, or a court order issued pursuant to N.J.S.A. 13:1E-9d, or who fails to pay a civil administrative penalty in full after it is due shall be subject upon order of a court to a civil penalty not to exceed $50,000.00 per day of such violation and each day's continuance of the violation shall constitute a separate violation.

15. Except as provided above in the Notice of a Right to a Hearing Section, this Notice of Civil Administrative Penalty Assessment shall be effective upon receipt.

Ronald T. Corcory
Assistant Director - Enforcement
Division of Hazardous Waste Management

RTC:MH:co

ATTACHMENT H-4

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E.
DIRECTOR

LINO F. PEREIRA
DEPUTY DIRECTOR

20 SEP 1985

DIRECTIVE LETTER

Synkote Paint Company
578 Dorchester Avenue
Rivervale, New Jersey 07675

Attention: Richard E. Max

Dear Mr. Max:

Members of the Division of Waste Management have determined that the following conditions on the property identified as Synkote Paint Company, Block 164, Lot 1C, Van Riper Avenue, Township of Elmwood Park, County of Bergen, New Jersey, constitute a danger to the environment and to the public health and are violative of the laws of the State of New Jersey.

During the course of an investigation conducted on November 8, 1984, it was determined that an undetermined amount of a hazardous substance (mineral spirits) was discharged in an area of the site, on the referenced property, onto the grounds of the State.

You are hereby directed, pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11(f), to undertake the following remedial action at the site:

1. Immediately cease and desist all discharges of hazardous substances onto the grounds which may enter the lands or waters of the State.

2. Within eight (8) calendar days upon receipt of this Directive Letter, submit to the Department for review and approval, a cleanup plan for the site, which shall include but is not limited to:

   a) A plan for removal of all contaminated soil in the area east of the building where raw materials are stored in drums.

b) The above mentioned plan shall include but is not limited to:

i) Methods to have soil samples taken and analyzed to determine the horizontal and vertical extent of soil contamination.

ii) Methods to have contaminated soil excavated.

iii) Method to contain all excavated contamined soil on an impermeable liner and provide an impermeable cover prior to disposal.

iv) Method to sample all contaminated soil prior to disposal for hazard classification.

v) Method of disposal.

c) A plan to control spillage of all hazardous substances within the site, which may discharge into the lands or waters of the State.

d) A time schedule for implementation of a cleanup plan.

3. Within three (3) calendar days of receipt of the Department's comments on the cleanup plan, revise said plan in accordance with any Departmental comments and resubmit the plan to the Department.

4. Commence the implementation of the approved cleanup plan, in accordance with the approved time schedule, within three (3) calendar days after Departmental approval of said plan.

5. Upon completion of the cleanup plan, an affidavit of completion shall be submitted to the Department for review and approval.

6. The Department shall be notified of any investigative or remedial actions conducted at the aforementioned property at least 48 hours in advance of the commencement of such actions.

7. All plans, reports, and data that are to be submitted to the Department shall be sent to:

New Jersey Department of Environmental Protection
Division of Waste Management
Northern Field Office
1259 Route 46E, Building 2
Parsippany, New Jersey 07054
Attention: Rich Collister

ATTACHMENT I-2

8. All notifications as required in Paragraph 6 above, shall be made to:

New Jersey Department of Environmental Protection
Division of Waste Management
Northern Field Office
1259 Route 46
Parsippany, New Jersey 07054
Attention: Boleslaw Czachor

Failure by you to respond to this Directive Letter within eight (8) calendar days of its receipt by you may result in the Department of Environmental Protection itself performing the cleanup operations specified herein. Should you fail to respond to this Directive Letter and fail to initiate cleanup operations as required, the Department may commence legal action against you seeking penalties and reimbursement for all costs incurred. Specifically, failure to comply with this Directive Letter may increase your liability to the Department in an amount equal to three times the costs of all expenses incurred in this operation and may cause a first priority claim and lien to be placed upon the aforementioned property and a claim and lien to be placed upon all of your other real and personal property in the amount of the Department's costs, in accordance with the Spill Compensation and Control Act.

Should you have any questions, please contact Richard Collister at (201) 299-7571.

Very truly yours,

Joseph A. Rogalski
Assistant Director
Field Operations, Compliance
and Enforcement

FO30:kaw

ATTACHMENT I-3

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT
120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E.
DIRECTOR

LINO F. PEREIRA
DEPUTY DIRECTOR

0 6 JUN 1985

(IN THE MATTER OF)
(SYNKOTE PAINT COMPANY)

ADMINISTRATIVE
ORDER

The following FINDINGS are made and ORDER is issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (Department) by N.J.S.A. 13:1D-1 et seq., the Solid Waste Management Act, as amended and supplemented, N.J.S.A. 13:1E-1 et seq., and duly delegated to the Assistant Director for Enforcement and Field Operations, Division of Waste Management, pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1) The New Jersey Department of Environmental Protection (hereinafter "the Department") has determined that Synkote Paint Company (hereinafter "Synkote") is a generator of hazardous waste (EPA ID Number NJD001394089) as defined by N.J.A.C. 7:26-1.4 and is located at Block 164, Lot 1c, Township of Elmwood Park, County of Bergen, State of New Jersey.

2) "Synkote" is a small manufacturer of industrial coatings. No hazardous waste is generated during the company's normal operations, however, the hazardous waste is generated when manufacturing vessels are washed out with solvents.

3) On November 7, 1984, Departmental representatives attempted to conduct an inspection of the above referenced location but were denied access, in violation of N.J.A.C. 7:26-9.4(k)1.

4) On November 8, 1984, Departmental representatives returned to the above referenced location and conducted an inspection. The following was noted:

   a. The earliest date written on hazardous waste containers stored on site was September 3, 1984.

   b. According to manifests, the last shipment of hazardous waste was transported off site on January 9, 1984.

ATTACHMENT J-1

c. Between January 9, 1984 and September 3, 1985 no manifests were produced regarding transporting hazardous waste off site for disposal.

5) Based on the facts in Paragraphs 4a, 4b and 4c it is determined that "Synkote" was accumulating hazardous waste in containers on site in excess of ninety (90) days.

6) Pursuant to N.J.A.C. 7:26-9.3(b), a generator who accumulates hazardous waste in excess of ninety (90) days is an operator of a hazardous waste storage facility and must comply with N.J.A.C. 7:26-9.1 et seq. and with the permit requirements of N.J.A.C. 7:26-12.1 et seq.

7) Based on the facts in Paragraphs 5 and 6 above, the Department has determined that "Synkote" is operating a hazardous waste facility as defined in N.J.A.C. 7:26-1.4.

8) A review of Department records reveals that there is no hazardous waste facility permit application on file for "Synkote".

9) Based on these facts, the Department has determined that "Synkote" is in violation of N.J.A.C. 7:26-9.3(b) and N.J.A.C. 7:26-12.1 et seq. by its failure to submit Part A and Part B of a hazardous waste facility permit application, and without having received a finally effective permit prior to operation of a hazardous waste facility.

10) N.J.S.A. 13:1E-5 prohibits the operation of a hazardous waste facility without first filing and obtaining approval of a permit application from the Department.

11) During the November 8, 1984 inspection of the above referenced facility, the following violations were also noted:

a. "Synkote" failed to retain one copy of manifest (N.J. 0207026) and forward one copy to the state of origin and one copy to the state of destination, in violation of N.J.A.C. 7:26-7.4(a)5iii.

b. "Synkote" did not receive a signed copy of portion "B" of manifest (N.J. 0000416) from the designated facility within 35 days. "Synkote" failed to notify the Department of the above mentioned situation, in violation of N.J.A.C. 7:26-7.4(h)1.

c. "Synkote" failed to store hazardous waste in containers in such a manner as to prevent them from leaking, in violation of N.J.A.C. 7:26-9.4(d)4iii.

ATTACHMENT J-2

d. "Synkote" failed to inspect areas where containers are stored, at least daily, looking for leaks and for deterioration caused by corrosion or other factors, in violation of N.J.A.C. 7:26-9.4(d)5.

12) "Synkote" failed to maintain the following documents and records at the facility:

a. The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job, in violation of N.J.A.C. 7:26-9.4(g)6i.

b. A written job description for each position listed under subparagraph 9.4(g)6i. This shall be kept current at all times. This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but shall include the requisite skill, education, or other qualifications, and duties of employees assigned to each position, in violation of N.J.A.C. 7:26-9.4(g)6ii.

c. A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under subparagraph 9.4(g)6i, in violation of N.J.A.C. 7:26-9.4(g)6iii.

d. Records that document that the training or job experience required under Paragraphs 9.4(a)1 through 5 has been given to, and completed by, facility personnel, in violation of N.J.A.C. 7:26-9.4(g)6iv.

13) In addition, the following violations were also noted:

a. "Synkote" failed to maintain training records on current personnel until closure of the facility; training records on former employees shall be kept for at least three years from the date the employee last worked at the facility, in violation of N.J.A.C. 7:26-9.4(g)7.

b. "Synkote" failed to equip portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment, in violations of N.J.A.C. 7:26-9.6(b)3.

c. "Synkote" failed to maintain aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment, and decontamination equipment to any area of

ATTACHMENT J-3

facility operation in an emergency, in violation of N.J.A.C. 7:26-9.6(e).

14) "Synkote" failed to make the following arrangements, in addition to the requirements at 9.4(g)8, as appropriate for the type of waste handled at the facility and the potential need for the services of these organizations:

a. Arrangements to familiarize police, fire departments, and emergency response teams with the layout of the facility, properties of hazardous waste handled at the facility and associated hazards, places where facility personnel would normally be working, entrances to and roads inside the facility, and possible evacuation routes, in violation of N.J.A.C. 7:26-9.6(f)1.

b. Agreements with emergency response contractors, and equipment suppliers, in violation of N.J.A.C. 7:26-9.6(f)3.

c. Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility, in violation of N.J.A.C. 7:26-9.6(f)4.

15) "Synkote" failed to maintain a copy of the contingency plan at the facility, in violation of N.J.A.C. 7:26-9.7(i)1.

ORDER

NOW, THEREFORE, IT IS HEREBY ORDERED that Synkote Paint Company, its principals, agents, employees, successors, assigns, tenants, and any receiver or trustee in bankruptcy, appointed pursuant to proceeding in law or equity, (should such an entity be appointed to take control of the facility which is the subject of this Order) shall:

16) Cease violation of N.J.A.C. 7:26-12.1 et seq. and comply with N.J.S.A. 13:1E-5, as follows:

a. Within fifteen (15) calendar days of receipt of this Administrative Order, properly dispose off site the hazardous waste in containers that have been stored on site for greater than 90 days in accordance with N.J.A.C. 7:26-7.4, and manage all future site generated hazardous waste in containers so as to comply with N.J.A.C. 7:26-9.3(a) (including but not limited to compliance with the requirements of N.J.A.C. 7:26-7.2, 9.3(a), 9.4(d), 9.4(g), 9.6 and 9.7).

17) Within fifteen (15) calendar days of receipt of this Administrative Order, obtain one copy of manifest (N.J. 0207026) and forward one copy to the state of origin and one copy to the state of destination, as to comply with N.J.A.C. 7:26-7.4(a)5iii.

18) Within fifteen (15) calendar days of receipt of this Administrative Order, obtain a signed copy of portion "B" of manifest (N.J. 0000416) from the designated facility as to comply with N.J.A.C. 7:26-(h)1.

19) Immediately upon receipt of this Administrative Order, store hazardous waste in containers in such a manner as to prevent them from leaking, as to comply with N.J.A.C. 7:26-9.4(d)4iii.

20) Immediately upon receipt of this Administrative Order, now and in the future, inspect areas where containers are stored, at least daily, looking for leaks and for deterioration caused by corrosion or other factors, as to comply with N.J.A.C. 7:26-9.4(d)5.

21) Within fifteen (15) calendar days of receipt of this Administrative Order provide and maintain the following documents and records at the facility:

    a. The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job, as to comply with N.J.A.C. 7:26-9.4(g)6i.

    b. A written job description for each position listed under subparagraph 9.4(g)6i. This shall be current at all times. This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but shall include the requisite skill, education, or other qualifications, and duties of employees assigned to each position, as to comply with N.J.A.C. 7:26-9.4(g)6ii.

    c. A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under subparagraph 9.4(g)6i, as to comply with N.J.A.C. 7:26-9.4(g)6iii.

    d. Records that document that the training or job experience required under Paragraphs 9.4(a)1 through 5 has been given to, and completed by, facility personnel, as comply with N.J.A.C. 7:26-9.4(g)6iv.

    e. Training records on current personnel until closure of the facility; training records on

former employees shall be kept for at least three years from the date employee last worked at the facility, as to comply with N.J.A.C. 7:26-9.4(g)7.

22) Within fifteen (15) calendar days of receipt of this Administrative Order, equip portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment, as to comply with N.J.A.C. 7:26-9.6(b)3.

23) Within fifteen (15) calendar days of receipt of this Administrative Order, provide and maintain aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment, and decontamination equipment, in an emergency, as to comply with N.J.A.C. 7:26-9.6(e).

24) Within fifteen (15) calendar days of receipt of this Administrative Order, make the following arrangements and agreements, in addition to the requirements at 9.4(g)8, as appropriate for the type of waste handled at the facility and the potential need for the services of these organizations:

a. Make arrangements to familiarize police, fire departments, and emergency response teams with the layout of the facility, properties of hazardous waste handled at the facility and associated hazards, places where facility personnel would normally be working, entrances to and roads inside the facility, and possible evacuation routes, as to comply with N.J.A.C. 7:26-9.6(f)1.

b. Make agreements with emergency response contractors, and equipment suppliers, as to comply with N.J.A.C. 7:26-9.6(f)3.

c. Make arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility, as to comply with N.J.A.C. 7:26-9.6(f)4.

25) Within fifteen (15) calendar days of receipt of this Administrative Order, provide and maintain a copy of the contingency plan at the facility, as to comply with N.J.A.C. 7:26-9.7(i)1.

26) Within fifteen (15) calendar days of receipt of this Order, submit an affidavit of compliance identifying the actions taken to correct the violations noted in Paragraphs 3 through 15. This affidavit shall be sent to:

ATTACHMENT 56

NJ Department of Environmental Protection
Division of Waste Management
Bureau of Compliance and Enforcement
120 Route 156
Yardville, NJ 08620
Attention: Richard Collister

BE ON NOTICE that the maximum civil penalty for violations of the Solid Waste Management Act or an ORDER issued pursuant thereto is $25,000 per day.

Joseph A. Rogalski
Assistant Director

F01:F030:lmc

ATTACHMENT J-7

HW000731

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT
120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E.
DIRECTOR

LINO F. PEREIRA
DEPUTY DIRECTOR

06 JUN 1985

Synkote Paint Company
c/o Richard E. Max
144-160 Van Riper Avenue
Elmwood Park, NJ 07407

Re: Penalty Settlement Offer

Dear Mr. Max:

Attached is an Administrative Order concerning a violation of the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq and regulations promulgated thereunder, specifically N.J.A.C. 7:26-7.4(a)5iii, 7.4(h)1, 9.4(d)4iii, 9.4(d)5, 9.4(g)6i, 9.6(b)3, 9.6(e), 9.4(k)1 and 12.1(a).

Pursuant to the terms of the Administrative Order, the violations must be corrected and the rules and regulations of this Department must be complied with by the specified date.

In addition, a penalty settlement offer of $3,875.00 will be held open until 21 JUN 1985 to allow for an amicable resolution of this statutory claim for the referenced violation. Be advised that N.J.S.A. 13:1E-9c provides for a maximum civil penalty of $25,000 per day for violations of this nature.

In the event of non-compliance with the Administrative Order and/or non-acceptance of this penalty settlement offer, this matter will be referred to the Office of the Attorney General for the initiation of litigation to enforce the Order and seek the full penalties allowed by law.

Should you wish to discuss the specifics for acceptable compliance with these directives, contact Richard Collister at (609) 984-3691.

ATTACHMENT K-1

Be advised that such discussion will not automatically delay or otherwise extend the deadline for compliance with the Administrative Order.

Very truly yours,

Joseph A. Rogalski
Assistant Director
Field Operations, Compliance
and Enforcement

F01:F030:lmc
Attachments

ATTACHMENT K-2

Form ADM-0.2

MEMO NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO David Beeman/Jeff Sterling DATE November 17, 1988

FROM David Oster

SUBJECT **Synkote Paint, Elmwood Park DHWM #02-11-04**

On 11/10/88 Dave Oster of MBE and Jim Taradash of Bergen County Health Services returned to Synkote Paint in order to enter facility grounds, check individual drums and obtain photographs. On a previous visit Oster and Taradash had noted approximately 200 55-gal drums outside the abandoned Synkote building, and additional drums inside. Some were observed to have hazardous waste labels and many were in poor condition.

After climbing the fence at the rear of the property Oster and Taradash entered the Synkote building through an unlocked door. Taradash pointed out 16 black drums of unknown material. One of these had previously leaked and Taradash had responded with Bergen County Hazmat. Speedi-Dry had been used to contain an unknown, dark liquid. Some of the black drums were marked "1/2 pt. cans." Also present inside the building are a hazardous waste salvage drum marked S&W Waste and dated 11/25/85, containers of resin (marked "toxic") and Primer ("flammable liquid"), a bucket of caustic soda, paint waste sludge and 12 additional unknown drums.

Also inside the building is a "lab table" with numerous known and unknown chemicals. These include:

Butanol
Epichlorhydrin (4 32-OZ. cans, poison liquid)
Neoprene latex (strong alkaline)
Glacial acetic acid (1 qt.)
Diethanolamine (1 qt.)
2-Ethylhexoic acid (1 qt.)
Triethanolamine (1 gal.)
Isophorone (1 gal.- hazardous substance)
2 1-gal jugs marked "acid"
unlabeled liquids and solids

Spillage was noted throughout the interior of the building, including resin, paint sludge and unknown material. There is evidence of leakage under reactor vessels and these vessels may contain residual material as well. Photographs of hazardous waste containers and spillage were obtained.

Moving to the outside of the property individual drums were checked for contents and condition. The 200 or more drums can be broken down into the following broad categories:

1) Yellow salvage drums (approximately 1/4 of all drums present). Condition ranges from good to very poor. Some unmarked, some with labels, e.g., "D001 Trichlor," "D001 Flammable," "Waste Corrosive Liquid." Some have hazardous waste labels not filled out.

ATTACHMENT L-1

8/15

November 17, 1988

Synkote Paint, Elmwood Park DHWM #02-11-04

2) About 30 rusty drums, condition fair to poor, staged in the center of the property. Chalk markings "HWS" (Hazardous Waste Solid?) and "HWL" (Hazardous Waste Liquid?) Some of these drums were corroded through and had discharged to the ground.

3) Numerous drums of paint waste sludge or resin, (approximately 1/3 of drums present) some of which had spilled or discharged.

4) Empty drums (approximately 1/4 of all drums).

Representative photographs of the above were obtained. Oster and Taradash then secured the property as best they could and departed.

ATTACHMENT L-2

9/15

November 17, 1988

Synkote Paint, Elmwood Park, DHWM #02-11-04

RECOMMENDATIONS/CONCLUSIONS:

Conditions at Synkote Paint represent a potential threat to both the environment and human health. Some of the drums have already discharged onto the ground, and others will do so in the future if they are not overpacked and/or removed. In addition, there are many flammables on-site, and fumes or vapors from fire could threaten nearby residences and active businesses. As the property is accessible to the public (including the interior of the building) the possibly of arson must be considered. Persons entering the property and tampering with chemical or waste containers might also create a reactive situation, aside from exposing themselves to hazardous materials.

Although Synkote is an unassigned ECRA case, the situation demands action by MBE. The owner should be identified, issued NOV's for hazardous waste and Spill Act violations, and ordered to remove drums and other containers for proper disposal. If necessary a Directive should be issued, with the Department ready to perform publicly-funded cleanup.

DO:jap

ATTACHMENT L-3

Form DWM-051
10/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT

INVESTIGATION

CASE #: ___ - ___ - ___

DWM FILE #: 02-11-04

INVESTIGATOR: Dave Oster

DATE: 3/10/89

TIME ARRIVED: 1310

TIME DEPARTED: 1500

LOCATION: Synkote Paint

PROPERTY OWNER: Property Concepts

ADDRESS: Van Dyck Ave.
Elmwood Park

MAILING ADDRESS: (Raymond Toppins et al)

LOCATION TELEPHONE #: ———

BLOCK: ___ LOT: ___

EPA ID #: ———

LOCAL HEALTH DEPT. REP. Jim Taradash - BCHS

TELEPHONE #: 595-6268

ORIGIN OF COMPLAINT: ___

TELEPHONE #: ___

NATURE OF COMPLAINT: ___

PHOTOGRAPHS TAKEN: ___

SAMPLE #: ___

FINDINGS: On 3/10/89 I met at the Synkote Paint site with Dwayne Harrington of USEPA Emergency and Remedial Response Division (Edison, N.J. - 201-906-6899). Also present was Ray Topping, one of the property owners, and Jim Taradash of Bergen County Health Services. Mr. Harrington had arranged this meeting as part of EPA's assessment of the site as a candidate for remedial action. After a brief preliminary discussion, Mr. Harrington entered the site using level B protection, a standard EPA procedure ~~when~~ at unknown sites. Oster, Topping and Taradash remained outside the gate until Mr. Harrington and an assistant returned. They obtained photographs, took readings with the hnu, and took a basic inventory of the drums on-site.

In a previous discussion Mr. Harrington had indicated to me that since a potential Responsible Party was known, he was obligated to seek RP cleanup before recommending EPA action. After returning from his inspection Mr. Harrington spoke to Mr. Topping regarding cleanup requirements. Topping expressed a willingness to secure the site, overpack some 250 drums and conduct soil and groundwater sampling. Harrington indicated that the usual procedure would be for the owners to enter into an ACO with the EPA.

At that point Harrington took me aside to discuss cleanup cost. We agreed that proper remediation would be quite expensive, and that the owners were probably not

Dave Oster

COPIES: White - DWM File Yellow - Local Health Dept. Pink - Investigator

ATTACHMENT M-1

INVESTIGATION

CASE # _ _ _

DATE: 3/10/89

FINDINGS AND SUMMARY:

aware of the total cost involved. Harrington stated that he would recommend EPA action without seeking RP ~~help~~ cleanup due to the seriousness of the situation at Synkote. He indicated that EPA action, if initiated, would address the drums and at least part of the soil investigation/removal, but definitely not groundwater. Harrington stated that he would keep Metro informed of progress.

After our discussion Harrington stressed to Topping the need for site security. Topping said that he would obtain new locks for the gates, lock the back door to Synkote, and board up broken windows. At 1500 I departed the site.

Dan Oates

COPIES: White - DWM File Yellow - Local Health Dept. Pink - Investigator

ATTACHMENT M-2

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT

INVESTIGATION

CASE # _ _ _

DATE 3/10/89

RECOMMENDATIONS AND CONCLUSIONS:

Recommend that EPA maintain the lead in this case. If EPA cleanup is initiated, Metro should monitor to completion and then address remaining problems of soil and groundwater.

Supervisor Signature

Investigator Signature

COPIES: White - DWM File Yellow - Local Health Dept. Pink - Investigator

ATTACHMENT M-3

Form DWM-051
10/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT

INVESTIGATION

CASE #: - - -

DWM FILE #: 02-11-04

TIME ARRIVED: 1220

INVESTIGATOR: Dave Oster

DATE: 1/24/89 TIME DEPARTED: 1350

LOCATION: Synkote Paint Co.

PROPERTY OWNER: Raymond Topping

ADDRESS: 144-160 Van Ripel Ave.
Elmwood Park
Bergen County

MAILING ADDRESS: 486 Mt. Prospect Ave.
Clifton NJ 07012
201-773-3222

LOCATION TELEPHONE #: None

BLOCK: 164 LOT: 1C

EPA ID #: NJD001354089

LOCAL HEALTH DEPT. REP. _____ TELEPHONE #: _____

ORIGIN OF COMPLAINT: _____ TELEPHONE #: _____

NATURE OF COMPLAINT: _____

PHOTOGRAPHS TAKEN: _____ SAMPLE #: _____

FINDINGS: On the above date Dave Oster of NJDE and Jim Laredesh of Bergen County Health Services returned to Synkote Paint to observe soil sampling by DCTS personnel. Dave Van Eyck has been coordinating the sampling and was present on 1/24. Sampling points were tentatively identified on a previous visit and were confirmed today by visual appearance of soils and use of the hnu and OVA. Approximately 6 points were sampled, with results to be forwarded to NJDE.

By digging down with the steam bar (6-8") readings of 100 ppm on the OVA were recorded at several spots. One such spot was sampled, and the hole was allowed to "vent" for 45 minutes. At that time a reading of 800 ppm could still be obtained. High readings were also recorded within the NE former tank containment area, and samples obtained.

Drum conditions continue to deteriorate. Recommend that the new owner (Raymond Topping) ~~be~~ be issued Spill Act and RCRA violations (Synkote is still a listed Generator) and directed to perform cleanup ~~of~~ If this course of action is not successful recommend issuance of a Directive or request for emergency funding to perform cleanup.

Dave Oster

COPIES: White - DWM File Yellow - Local Health Dept Pink - Inspector

ATTACHMENT N

Richard Gertman
HSMM

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
METRO BUREAU OF REGIONAL ENFORCEMENT
2 BABCOCK PLACE
WEST ORANGE, NEW JERSEY 07052

JOHN W. GASTON JR., P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

January 3,1986

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Allan S Gutfleish, Esq.
185 Engle St
P.O. Box 711
Englewood, NJ 07631

Re: Subsurface Contamination at
Synkote Paint Company
Elmwood Park / Bergen County

Dear Mr. Gutfleish,

The Synkote Paint Company (SPC) located at 144-160 Van Riper Avenue underwent Assignment for the Benefit of Creditors on February 27, 1985. As the legal representative for Mr. Richard Max, owner of said property and principal stockholder of SPC, you shall receive all correspondence directed toward SPC or Mr. Max.

On July 3, 1985 representatives of the Division of Water Resources (DWR) conducted an inspection at the (SPC) facility located on Van Riper Ave, Elmwood Park. Mr.Richard Max was present during this inspection.

Listed below are the pertinent observations and findings resulting from the inspection.

1. Analytical data from soil sampling conducted at the facility on July 3, 1985 revealed elevated concentrations of volatile organics (see attached list).

2. The rear yard contained approximately 200 - 400 fifty-five gallon drums some of which were rusted and leaking.

3. Spillage was evident throughout the rear yard of the SPC facility.

ATTACHMENT 01

In order to properly evaluate the extent of contamination and determine any impact on the area's ground water supply, Mr. Max is hereby Directed to initiate a hydrogeological investigation for the SPC facility in Elmwood Park. A work plan for the investigation is to be submitted to DWR for approval. The work plan is to be prepared by a qualified hydrogeologist and is to include at a minimum the following:

1. Monitor wells are to be installed hydraulically upgradient from the on-site contaminated zone. Their number, location and depth must ensure that samples from the wells are representative of background ground water quality near the facility and that the samples are not affected by the facility.

2. Monitor wells are to be installed hydraulically downgradient from the on-site contaminated zone. Their number, location and depth must ensure that they intercept any contaminants migrating from these areas. In addition, the number and location of monitor wells must be sufficient to establish ground water flow direction.

3. All ground water monitor wells must be installed by a licensed New Jersey Well Driller, pursuant to N.J.S.A. 58:4a-6. A valid New Jersey permit, issued pursuant to N.J.S.A. 58:4a-14. to drill a well must be obtained from the Water Allocation Office (609) 984-6831. All monitor wells are to be constructed according to NJDEP specifications (attached).

4. Test pits and/or borings are to be installed in sufficient number and depth to allow full delineation of the extent of soil contamination in the area of the on-site subsurface disposal systems.

5. Soil and water sampling and analyses procedures shall be designed to ensure representative monitoring results. At a minimum the program shall include procedures and techniques for :

i) Sample collection;

ii) Sample preservation and shipment;

iii) Analytical procedures; and,

iv) Chain of Custody control.

ATTACHMENT D-2

These procedures shall be incorporated into a quality assurance/quality control (QA/QC) plan using the format designated in the USEPA Document OWRS QA-1 entitled Guidance For Preparation of Combined Work/ Quality Assurance Project Plans for Environmental Monitoring.

6. Water and soil samples are to be analyzed for volatile pollutants as listed in N.J.A.C. 7:14A Appendix B, Table II and petroleum hydrocarbons using approved USEPA methods by a laboratory certified pursuant to N.J.A.C. 7:18.1 et seq.

7. The locations of each monitor well, boring and test pit shall be determined by a New Jersey licensed surveyor and an accurate base map showing these locations shall be prepared.

8. A report containing the findings of the investigations shall be prepared and include:

i) Stratigraphic logs for each monitor well, boring and test pit;

ii) As built construction diagrams for each monitor well;

iii) Elevations of the top of each monitor well casing as surveyed by a New Jersey licensed surveyor to the nearest 0.01 foot;

iv) Site plan of appropriate scale showing the locations of all monitor wells, borings and test pits;

v) Ground water contour maps based on three sets of synoptic static water levels taken at weekly intervals measured at each monitor well to the nearest hundredth (0.01) foot;

vi) Analytical data from all sample analyses;

vii) An assessment of the degree and extent of soil and ground water contamination including conclusions concerning the types of contamination, ground water flow mechanisms, flow rates, vertical and horizontal flow direction; and,

viii) Recommendations for remedial measures designed to eliminate, decontaminate, control or otherwise mitigate ground water pollution.

9. A schedule for the implementation of the hydrogeologic investigation and submission of the report shall be included in the work plan.

The Hydrogeological Investigation Work Plan shall be submitted to DWR no later than February 25,1986 . Upon DWR's approval of the work plan, Mr. Max shall implement the hydrogeologic investigation in accordance with the approved time schedule.

All submittals called for in this Directive shall be made to :

Mr. Stefan D. Sedlak, Assistant Chief
Metro Bureau of Regional Enforcement
Division of Water Resources
2 Babcock Place
West Orange, New Jersey 07052

Failure to comply with this Directive will result in appropriate enforcement action pursuant to the New Jersey Water Pollution Control Act N.J.S.A. 58:10A-1 et seq. and the Spill Compensation and Control Act N.J.S.A. 58:10-23.11 et seq.

If there are any questions concerning this matter please contact Mr. Anthony DeCandia of this office at (201)669-3900.

Very truly yours,

Stefan Sedlak

Stefan D. Sedlak
Assistant Chief
Metro Bureau of
Regional Enforcement

E126

cc: Lenny Garnett ECRA
Richard Gervasio HSMA
Edward Burbank H.O.

ATTACHMENT O-4

SYNKOTE PAINT COMPANY, Van Riper ave, Elmwood Park

SOIL SAMPLES
JULY 3,1985

SAMPLE IDENTIFICATION	SAMPLE 1*	SAMPLE 2*	SAMPLE 3*	SAMPLE 4+
FIELD SAMPLE NUMBER	BO29183	BO29184	BO29185	BO29186
PARAMETERS:				
Benzene	ND	48	2.245	ND
Ethylbenzene	17	6.890	1.250	ND
n-Butylbenzene	ND	6.330	ND	ND
n-Propylbenzene	2.280	25	4.900	ND
sec-Butylbenzene	ND	13	113	ND
1,2,4 Trimethyl-benzene	3.540	718	ND	100
1,3,5 Trimethyl-benzene	2.530	23	0.900	ND
Cumene	3.500	27	10	100
Styrene	1.740	16	103	ND
p-Cymene	ND	27	380	ND
Toluene	965	14	2.500	ND
o-Xylene	205	59	204	100
m-Xylene	480	44	316	260
p-Xylene	160	14	126	ND

* - parts per million
\+ - parts per billion
nd - none detected

A.Decandia,DWR
SEPTEMBER,1985

ATTACHMENT D-5

NEW J[illegible] DEPARTMENT OF ENVIRONMENTAL [illegible]TION
DIVISION OF WATER RESOURCES

INVESTIGATION MEMORANDUM

Persons Conducting Investigation

Richard White

Anthony DeCandia

Complaint No./NJPDES No. 06-1185

Date of Investigation 7/3/85

Routing Harrington/Lynch

Location of Incident Syncoat Paint Company

144-160 Van Riper Avenue, Elmwood Park, NJ 07407

Purpose of Investigation Continuation of an investigation and soil sampling at various locations at the rear of the Syncoat property.

Persons Interviewed Mr. Richard Max, President of Syncoat Paint and property owner.

Summary of Findings

All production and manufacturing operations at this facility were discontinued in February 1985. By prearrangement Mr. Max was met at the site at 0920 to provide access to the locked and fenced areas of the property. Soil samples were obtained at the following locations:

Sample #1 - East side of building adjacent to the chrome fence.

Sample #2 - Inside a walled area of the solvent storage tanks.

Sample #3 - At the rear of the building approximately 10' south of the rear door.

Sample #4 - At a drum storage area in the rear of the building on the west side.

ATTACHMENT P-1

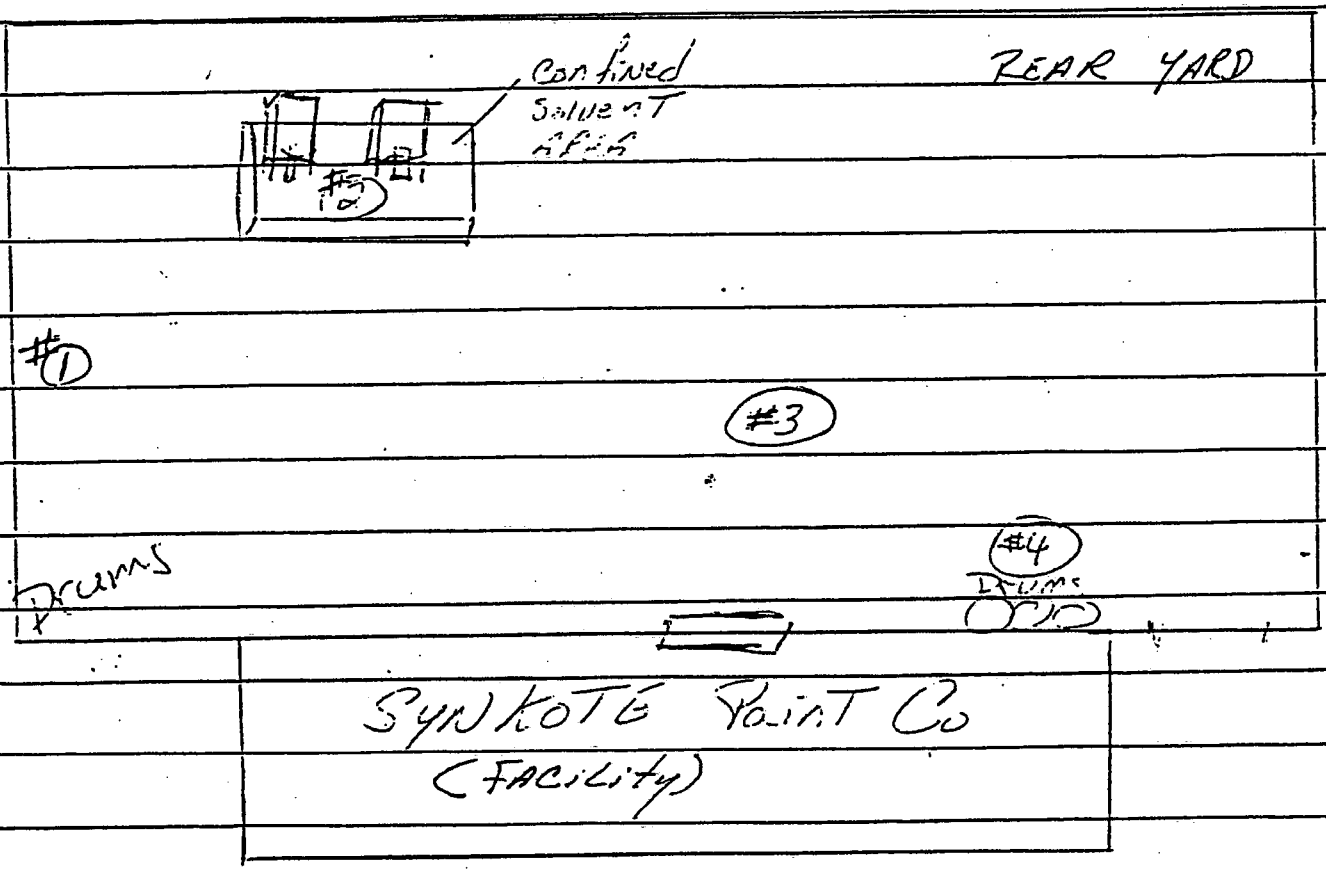
Numerous damaged, empty, fuel, and leaking 55 gallon drums were observed on site along with unused solvent storage tanks. Mr. Max stated that he has no plans for a cleanup of the site due to lack of funds.

Samples were transported Chain of Custody to the courier for Volatile Organic analysis by the Department of Health Lab in Trenton. Photographs of the areas sampled are attached.

Richard White

ATTACHMENT R-2

#1
#2
#3
#4
} Sampling Points



* 1. Drums are found throughout yard.
2. NOT Drawn to Scale

ATTACHMENT P-3

Form VST-010
8/79

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

RECEIVED
DIVISION OF WATER RESOURCES
ENFORCEMENT ELEMENT

CHAIN OF CUSTODY

BACT. LAB NO. ____
DATE REC'D. ____
BOTTLE NO. 29183
DATE REC'D. ____
STORET ENT. ____
STORET READ ____

MUNICIPALITY ELMWOOD PARK	COUNTY BERGEN	STREAM ____
FACILITY SYNKOTE PAINT CO	LOCATION 142 & 160 ROAD RIPRAP AVE	
REPRESENTATIVE M. T. X. MAX	TITLE/US President	COLL NAME WHITE, DeCandia
REMARKS EXCAVATION #1 - Surface soil		221 240

PRIORITY

STATION IDENTIFICATION NUMBER: S C , ____ , YR. MO. DAY: 850703 HOUR: 1015 ,

29183

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O.-Winkler	P300,	
☐ D.O.-Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @ 25°C	P95,	
☐ Salinity 0/00	P480,	
☐ Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Coliform / Total Coliform								
Fecal Streptococci								

Fecal coli /100 ml ☐ MPN P31615, ☐ MF P31613, ____ ,

☐ Fecal Strept MPN /100 ml P31677, ____ ,

☐ Tot coli MPN /100 ml P31505, ____ ,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) ____ SAMPLE
SEED YES ☐ NO ☐

CONC. %			
BOD ____			

☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312, ____ ,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☐ V.O. SCAN				
☐				
☐ SOIL				
☐				
☐ SAMPLE				
☐				
☐ ETHYLBENZENE	PPM	P	.17	
☐ CUMENE		P	.3.500	
☐ N-PROPYLBENZENE		P	.2.280	
☐ STYRENE		P	.1.740	
☐ TOLUENE		P	.965	
☐ 1,2,4 TRIMETHYLBENZENE		P	.3.540	
☐ 1,3,5 TRIMETHYLBENZENE		P	.2.530	
☐ O-XYLENE		P	.205	
☐ M-XYLENE		P	.480	
☐ P-XYLENE		P	.160	
☐		P		
☐ + NUMEROUS		P		
☐ UNIDENTIFIED PEAKS		P		
☐		P		
☐		P		
☐		P		
☐		P		

RECEIVED
CHAIN OF CUSTODY

REPORT SUBMITTED

DATE	TIME	FROM (NAME)	TO (NAME)
		AUG 08 1985	JUL 22 1985
		DEPT ENVIRONMENTAL PROTECTION NEWARK OFFICE	NJDOH Environmental Chemistry Laboratory

Chemist Review ____

Part 1(White) - Water Quality Inventory Copy
Part 2(Green) - Chemistry Copy
Part 3(Pink) - Water Resources Copy(For Transmission)
Part 4(Yellow) - Bacteriology Copy

ATTACHMENT P-4

Form VST-010
8/79

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources

RECEIVED
DIVISION OF WATER RESOURCES
ENFORCEMENT ELEMENT

WATER ANALYSIS

CHAIN OF CUSTODY

BACT.-LAB NO.
DATE REC'D.
BOTTLE NO. 29184
DATE REC'D.
STORET ENT.
STORET READ

MUNICIPALITY Elmwood Park	COUNTY	STREAM
FACILITY SYNKOTE Paint	LOCATION 144-160 VAN RIPER AVE	
REPRESENTATIVE Mr. K. MAX	TITLE President AM 85	COLL NAME White, DeCandia
REMARKS EXCAVATION #2 - Surface soil 221 24D		

STATION IDENTIFICATION NUMBER: SC, | YR. MO. DAY: 850703 | HOUR: 1025.

29184

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O.-Winkler	P300,	
☐ D.O.-Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @ 25°C	P95,	
☐ Salinity ‰	P480,	
☐ Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Coliform / Total Coliform								
Fecal Streptococci								

Fecal coli /100 ml ☐ MPN P31615, ☐ MF P31613,

Fecal Strept MPN /100 ml P31677,

☐ Tot coli MPN /100 ml P31505,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE
SEED YES ☐ NO ☐

CONC.%
BOD _____

☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☐ V.O. SCAN				
☐ Soil Sample				
☐ BENZENE	PPM	P	.48	
☐ N-butylbenzene		P	.6.330	
☐ S-c-butylbenzene		P	.113	
☐ ETHYLBENZENE		P	.6.890	
☐ CUMENE		P	.27	
☐ p-cymene		P	.27	
☐ n-propylbenzene		P	.25	
☐ STYRENE		P	.16	
☐ TOLUENE		P	.14	
☐ 1,2,4 trimethylbenzene		P	.718	
☐ 1,3,5 trimethylbenzene		P	.23	
☐ O-Xylene		P	.59	
☐ M-xylene		P	.44	
☐ p-xylene		P	.14	
☐ + NUMEROUS		P		
☐ UNIDENTIFIED PEAKS		P		

DATE	TIME	CHAIN OF CUSTODY RELINQUISHED BY (NAME)	TO (NAME)
			REPORT SUBMITTED
		RECEIVED AUG 08 1985	JUL 23 1985
		DEPT. ENVIRONMENTAL PROTECTION NEWARK OFFICE	NJDEP Environmental Chemistry Laboratory

Chemist Review _____

Part 1(White) - Water Quality Inventory Copy
Part 2(Green) - Chemistry Copy
Part 3(Pink) - Water Resources Copy (For Transmission)
Part 4(Yellow) - Bacteriology Copy

ATTACHMENT P-5

Form VST-010
8/79

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

RECEIVED
DIVISION OF WATER RESOURCES
ENFORCEMENT ELEMENT

CHAIN OF CUSTODY

BACT. LAB NO.	
DATE REC'D.	
BOTTLE NO.	29185
DATE REC'D.	
STORET ENT.	
STORET READ	

MUNICIPALITY: Elmwood Park	COUNTY: Bergen	STREAM:
FACILITY: SYNKOTE Paint Co	LOCATION: [illegible] VAN RIPER AVE	
REPRESENTATIVE: Mr. R MAX	TITLE: President	COLL NAME: White, DeCandia

REMARKS: EXCAVATION #3 - surface soil, 221 24D

Priority

STATION IDENTIFICATION NUMBER	YR. MO. DAY	HOUR
S C ,	850703	1035

29185

FIELD ANALYSIS

Water Temp °C	P10,	
D.O.-Winkler	P300,	
D.O.-Probe	P299,	
pH (Field)	P400,	
Sample Depth-ft.	P3,	
Gage Height-ft.	P65,	
Spec. Cond. @ 25 °C	P95,	
Salinity ‰	P480,	
Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total Coliform	10	1	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}
Fecal Streptococci	10	1	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}

Fecal coli /100 ml — MPN P31615, MF P31613,

Fecal Strept MPN/100 ml — P31677,

Tot coli MPN/100 ml — P31505,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) ______ SAMPLE

SEED YES ☐ NO ☐

CONC.%

BOD __

BOD ☐ 5-DAY P310, ☐ 6-DAY P312,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
V.O. SCAN		P		
Soil Sample		P		
Benzene	ppM	P	2.245	
sec-butylbenzene		P	113	
ethylbenzene		P	1.250	
cumene		P	10	
p-cymene		P	380	
n-propylbenzene		P	4.900	
styrene		P	103	
toluene		P	1.500	
1,3,5-trimethylbenzene		P	0.900	
o-xylene		P	204	
m-xylene		P	316	
p-xylene		P	126	
+ numerous unidentified peaks		P		

RECEIVED

DATE	TIME	CHAIN OF CUSTODY FROM (NAME)	TO (NAME)
		AUG 08 1985	JUL 22 1985
		DEPT. ENVIRONMENTAL PROTECTION NEWARK OFFICE	NJDOH Environmental Chemistry Laboratory

REPORT SUBMITTED

Chemist Review ______

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmission)
Part 4 (Yellow) - Bacteriology Copy

ATTACHMENT P6

Form VST-010
8/79

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources

RECEIVED
DIVISION OF WATER RESOURCES

WATER ANALYSIS

CHAIN OF CUSTODY

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

MUNICIPALITY Elmwood Park	COUNTY Bergen	STREAM
FACILITY SYNKOTE Paint Co	LOCATION [illegible] RIPER AVE	
REPRESENTATIVE Mr. R MAX	TITLE President	COLL NAME White, DeCandia
REMARKS EXCAVATION #4 - surface soil		221 240

BACT. LAB NO.
DATE REC'D.
BOTTLE NO. 29186
DATE REC'D.
STORET ENT. READ

Priority

STATION IDENTIFICATION NUMBER: SC, [,]
YR. MO. DAY: 850703
HOUR: 1045.

29186

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O.-Winkler	P300,	
☐ D.O.-Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @ 25°C	P95,	
☐ Salinity °/00	P480,	
☐ Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml: ☐ MPN P31615, ☐ MF P31613,

☐ Fecal Strept MPN/100 ml P31677,

☐ Tot coli MPN/100 ml P31505,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE
SEED YES ☐ NO ☐

CONC.%	.		
BOD			

☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
V.O. SCAN				
Soil Sample				
☐ CUMENE	ppb	P	100	
☐ 1,2,4 TRIMETHYLBENZENE		P	100	
☐ O-XYLENE		P	100	
☐ M-XYLENE		P	260	

RECEIVED
AUG 08 1985
DEPT. ENVIRONMENTAL PROTECTION
NEWARK OFFICE

DATE	TIME	CHAIN OF CUSTODY FROM (NAME)	TO (NAME)
			REPORT SUBMITTED
			JUL 22 1985
			NJDOH Environmental Chemistry Laboratory

Chemist Review _____

Part 1(White) - Water Quality Inventory Copy
Part 2(Green) - Chemistry Copy
Part 3(Pink) - Water Resources Copy(For Transmission)
Part 4(Yellow) - Bacteriology Copy

ATTACHMENT P-7

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
Trenton, N.J. 08625-0029

Jorge H. Berkowitz, Ph.D.
Acting Director

(609) 292-1637
Fax # (609) 984-7938

June 14, 1989

Boswell Engineering
330 Phillips Avenue
South Hackensack, New Jersey 07606

ATTN: Anthony Gencarelli

0922001

Dear Mr. Gencarelli:

RE: Garfield Water Department
VOC Contamination

Unacceptable levels of volatile organic contamination, particularly trichloroethhylene and tetrachloroethylene have been detected in the Garfield Water Department Distribution System for some time. Their source has beeen verified as emanating from supply wells in Elmwood Park and at Midland Avenue. The Bureau of Safe Drinking Water (Bureau) has directed that remedial measures be instituted to bring water to within acceptable limits.

A permit was issued by the Bureau on July 22, 1988 for the construction of packed column aeration facilities, an acceptable treatment technology for this problem. Accordingly, the Bureau whole heartedly endorses the expedient construction of said treatment facilities.

Sincerely,

Barker Hamill, Chief
Bureau of Safe Drinking Water

BH:BOSWELL:jh

ATTACHMENT 9

City of Garfield

New Jersey

Issued by Joan Kryak (Vice Mayor)

DEPARTMENT OF PUBLIC WORKS
(201) 546-2200
478-9081

Mr. Nunzio Santora
Superintendent

Joanne Romano
Secretary

March 22, 1989

PWID 0722001

State of New Jersey
Department of Environmental Protection
Division of Water Resources
Bureau of Safe Drinking Water
CN -029
Trenton, New Jersey 08625

Dear Mr. Monaco:

Please be advised that the City of Garfield Water Department has shut down effective 3/20/89 all of our wells, both in the Garfield well fields and the Elmwood Park well fields. We will not be restarting any of these fields until air strippers are built. The expected completion will not be until the end of 1989 or early 1990.

Please note that at this time, I feel that I need only (1) #280 sample taken. We are currently buying our water from Passaic Valley Water Company. The only exception to this would be in an emergency with our supply. If it is needed at that time then we would use our Elmwood Park wells # 1,4,10,12 and 14 until repairs could be made to our supply lines from Passaic Valley Water Company.

Thank you for your attention to this matter. If any questions, please feel free to contact me.

Sincerely,

Mr. Michael J. Sferruzzo

Mr. Michael J. Sferruzzo
Licensed Water Operator

cc: Mr. William Boyle
Mr. Nunzio Santora
file

ATTACHMENT R

Form DWR-052
3/81

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

REPORT OF PHONE CALL OR VISIT

Bureau or Office Metro

In _____ Out ✓

File _____

Date 6/1/89 Time -

Routing file

Person Contacted Maria John / ~~Bob~~ Mike Sferuzzo Phone No. _____

Affiliation BSDW / Garfield Water Dept

Subject of (Call) Visit Elmwood Park Wellfield

Summary of (Call) Visit Maria told me verbally the MCL violations that caused BSDW to tell Garfield (verbally) to stop using the Elmwood Park wellfield.

Dec 88	5.31 ppb	Tricchloro ethylene	8.97 ppb	Tetra chloro ethylene
1/10/89	4.03	"	7.97	"
2/7/89	3.05	"	3.69	"
3/14/89	4.19	"	6.93	"

The MCL limit for individual contaminants is 1.0 ppb.

I called Mike Sferuzzo inquiring where these samples were taken. He said that the operating wells flowed to the clearwell & where then sampled before mixing w/ PVWC water. The wells are no longer in use.

Action Recommended _____

John M Brennan
Signature

ATTACHMENT 5